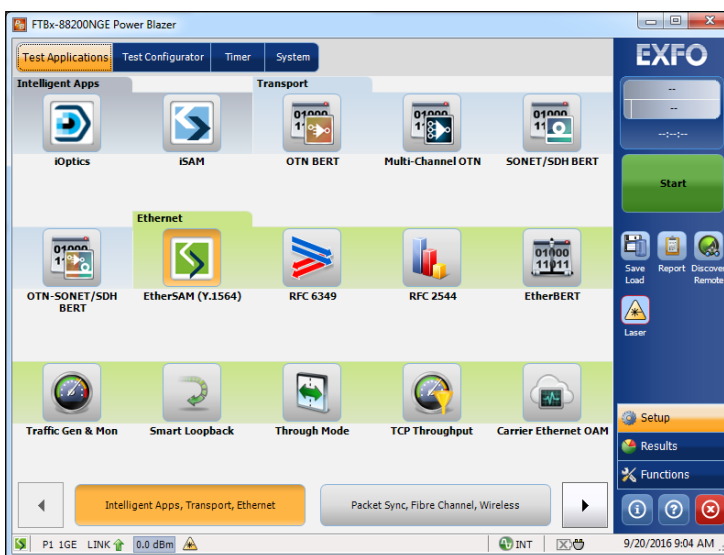


HIGH-SPEED MULTISERVICE TEST MODULE

SCPI Commands

Power Blazer/NetBlazer



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1 *Introducing the 88xx/8xx SCPI Commands*

The 88xx/8xx modules can be remotely controlled using SCPI commands. You can also use these commands directly on the unit to build scripts to automate test processes.

The SCPI commands described in this user guide cover the modules listed in the following table. However not all commands and options are available on all modules.

Application	Platform	Modules
Power Blazer	FTB-2	8870
	FTB-2 Pro	8880
	FTB-4 Pro	88200NGE
	LTB-2	88260
	LTB-8	88460
		88480
		88481
		88482
		88800
		88801
NetBlazer ^a	FTB-1v2 (modular back)	8870
		8880
		88200NGE
		88260
		88480
		88481
		88800
		88801
	FTB-1v2 (non-modular back)	720Gv2/730Gv2
		870v2/870Q
		880v2/880Q
		890/890NGE

- a. Operating the NetBlazer instrument uses the same amount of resources than the NetBlazer application that is, the same limitations are applicable. Refer to **Starting the Module Application** from the NetBlazer user guide for more information.

Conventions

Before using the product described in this guide, you should understand the following conventions:



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in *death or serious injury*. Do not proceed unless you understand and meet the required conditions.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in *minor or moderate injury*. Do not proceed unless you understand and meet the required conditions.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in *component damage*. Do not proceed unless you understand and meet the required conditions.



IMPORTANT

Refers to information about this product you should not overlook.

2 **Getting Started**

This section contains a brief summary of the 88xx/8xx specific commands.

Following steps will give an idea about the command and sequence of commands to execute and perform a specific test.

To create a BERT test for example:

1. *CLS

This command clears the register of module.

2. INST:CAT:FULL?

This command will detect the module attached to the platform back panel and return the name of the module and its position with Unit number and Slot number.

For example "FTB-88xxx-Power Blazer", 10. This information is added with LINS keyword before each and every SCPI command. Following SCPI commands describes the use of LINS.

3. LINS10:SOURce:DATA:TELecom:TEST:TYPE EBERT

This command selects Ethernet Bert Test.

4. LINS10:SOURce:DATA:TELecom:ITYPE LANE4X10

This command sets the interface type as 4X10.

5. LINS10:SOURce:DATA:TELecom:ITYPE?

This query returns the interface type as 4X10.

6. LINS10:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver CFP

This command selects the type of connector as CFP.

7. LINS10:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

This query returns the type of connector.

8. LINS10:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing FRAMEDLAYER2

This command selects the framing type as FRAMEDLAYER2.

9. LINS10:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?

This query returns the framing type.

10. LINS10:SENSe:DATA:TELecom:ALASer ON

This command enables or disables the status of all lasers.

11. LINS10:SENSe:DATA:TELecom:ALASer?

This query returns the current state of all lasers.

12. LINS10:SOURce:DATA:TELecom:PATtern:TYPE PRBs2E9

This command selects the payload pattern type for the transmitter as PRBS2E9.

13. LINS10:SOURce:DATA:TELecom:PATtern:TYPE?

This query returns the payload pattern type of the transmitter.

14. LINS10:SOURce:DATA:TELecom:TEST ON

This command starts the manual test.

15. LINS10:SOURce:DATA:TELecom:TEST?

This query returns the status of the manual test.

16. LINS10:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual: TYPE BIT

This command sets the type of pattern error as BIT.

17. LINS10:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual: TYPE?

This query returns the type of pattern error.

18. LINS10:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUNT 25

This command sets the amount of pattern error to be injected into the instrument as 25.

19. LINS10:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUNT?

This query returns the amount of pattern error injected into the instrument.

20. LINS10:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect

This command injects the type of pattern error.

21. LINS10:SOURce:DATA:TELecom:TEST OFF

This command stops the manual test.

Note: In User Interface, if "--" is displayed for any field, the related SCPI results will be according to the following table conditions:

Data Type	Has Minimum Value	Command Result
<NR1 NUMERIC RESPONSE DATA> <NR2 NUMERIC RESPONSE DATA> <NR3 NUMERIC RESPONSE DATA> <HEXADECIMAL NUMERIC RESPONSE DATA>	Yes	[Minimum value]
<NR1 NUMERIC RESPONSE DATA> <NR2 NUMERIC RESPONSE DATA> <NR3 NUMERIC RESPONSE DATA> <HEXADECIMAL NUMERIC RESPONSE DATA>	No	This data does not yet have a value, it is pending.
<STRING RESPONSE DATA> <CHARACTER RESPONSE DATA>	No	This data does not yet have a value, it is pending.

Dual Port Topology and Multi-Port Test

Port Selection

For **Dual Port** topology or multi-port test (FlexE), it is required to first select the port using the following command, then the next commands will be addressed to the selected port:

```
LINS10:SOURce:DATA:TELEcom:PORT P1,  
LINS10:SOURce:DATA:TELEcom:PORT P2, etc.
```

Specific port command example:

```
LINS10:SOURce:DATA:TELEcom:PORT P1  
  
LINS10:SOURce:DATA:TELEcom:ETHernet:PORT:FCONtrol TX  
LINS10:SOURce:DATA:TELEcom:ETHernet:PORT:FCONtrol?  
  
LINS10:SOURce:DATA:TELEcom:ETHernet:PORT:DUPLex NONE  
LINS10:SOURce:DATA:TELEcom:ETHernet:PORT:DUPLex?
```

Port Direction

The SOURce:DATA:TELEcom:PORT command should only be used for specific port commands which do not have direction as parameter. For commands which have direction as parameter, use P1TOP2 and P2TOP1.

Specific port direction in Dual Port topology examples:

```
LINS10:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:T  
RAPolicing:VALue 1, P1TOP2,99.0  
  
LINS10:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:T  
RAPolicing:VALue 1, P2TOP1,99.0
```


3 **Communicating Through TCP/IP over Telnet**

Introducing TCP/IP over Telnet

The EXFO Instrument Control provides SCPI automation or remote control over Telnet through TCP/IP as a Windows Service that continuously listens to a port from a Telnet server (FTB/IQS/LTB) on which modules to be tested are connected.

TCP/IP protocols are used for communication.

Note: *Port 5024 is designated for sending SCPI commands over Telnet, and port 5025 for sending commands over a raw (socket) communication.*

Most of Windows versions include the Telnet client and the Telnet server components. With these components, you can create a remote command console session on a remote computer.

Commands can be executed simply by logging on the server using the Telnet interface.

There are two types of commands that can be sent over Telnet: SCPI commands and internal protocol commands of the TCP/IP over Telnet service. The internal commands allow you to perform certain actions such as send SCPI commands as a script instead of one by one, force the disconnection of an active session, view the status of modules and of connected clients, etc.

Features

- A client from any operating system (Windows, Linux, or Unix) can use the freely available Telnet components to connect to the service.
- A client can connect to multiple modules at a time.
- A user can connect to multiple modules through single/multiple sessions.
- A client can execute single commands or a batch of commands.
- A user can disconnect any client/session that is already connected.

Configuring Your Unit and Modules to Work With TCP/IP over Telnet

The TCP/IP over Telnet Service, which is part of the EXFO Instrument Control, is a mediator between the Telnet client and the test instrument.

Once your unit is configured properly, any request from the Telnet client is transferred to the appropriate instrument. The instrument executes the request and returns the response to TCP/IP over Telnet accordingly.



IMPORTANT

If you are working with an FTB-1v2/FTB-1v2 Pro, FTB-2/FTB-2 Pro/FTB-4 Pro, LTB-1, or LTB-2/LTB-8/LTB-12 unit, before being able to control instruments with SCPI commands, you must first allow remote access to these instruments.

Communicating Through TCP/IP over Telnet

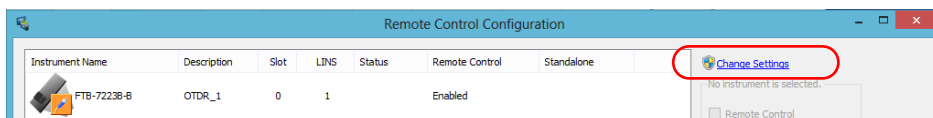
Configuring Your Unit and Modules to Work With TCP/IP over Telnet

To allow remote access to your instruments (all units except FTB-500 and IQS-600):

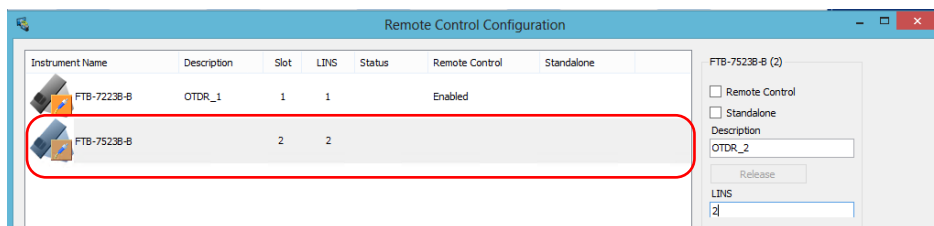
1. From Mini ToolBox X or ToolBox X, tap or click the **System Settings** button.
2. Tap or click **Remote Control Configuration**.



3. If necessary, tap or click **Change settings**, and then, when the application prompts you to authorize the changes to your unit (identified as “computer”), select **Yes**.



4. From the **Remote Control Configuration** window you will see all the inserted modules. Select the module for which you want to have remote access.



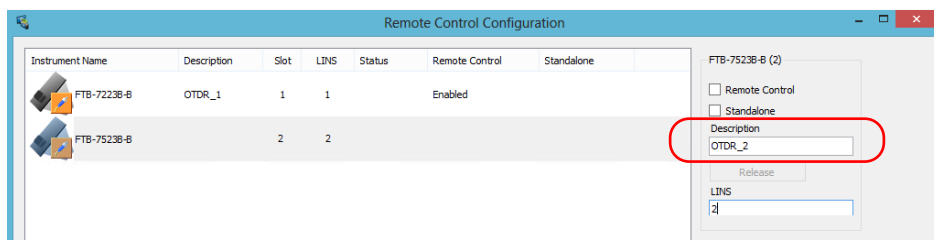
Communicating Through TCP/IP over Telnet

Configuring Your Unit and Modules to Work With TCP/IP over Telnet

5. Set the parameters:

- Select **Remote Control** to be able to access the module remotely (via TCP/IP over Telnet or other).
- Select **Standalone** to leave the module active even if all users close their dedicated applications.

6. If desired, under **Description**, type a description that will help you identify the instrument.

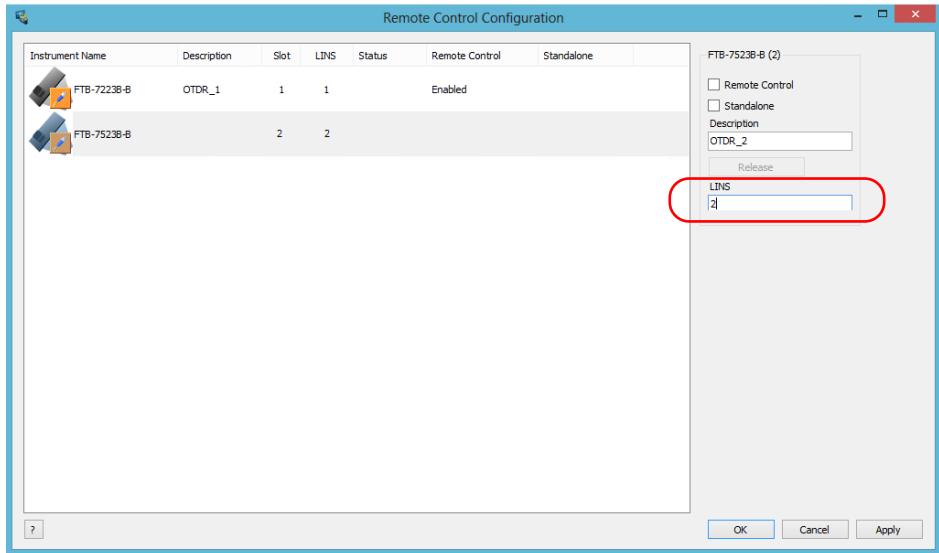


Note: You can enter up to 10 characters. The description can correspond to the test interface ID or to any other short text of your choice.

Communicating Through TCP/IP over Telnet

Configuring Your Unit and Modules to Work With TCP/IP over Telnet

7. If necessary, under **LINS**, modify the logical instrument number that you will use to access the instrument remotely.



Note: If the **LINS** column is empty, it means that the corresponding module cannot be controlled using SCPI commands.

8. Tap or click **Apply** to confirm your changes or **OK** to apply your changes and close the window.

Note: This information will be updated the next time you start the module application, or set Instrument Control in remote mode. Refer to the corresponding module documentation for more details.

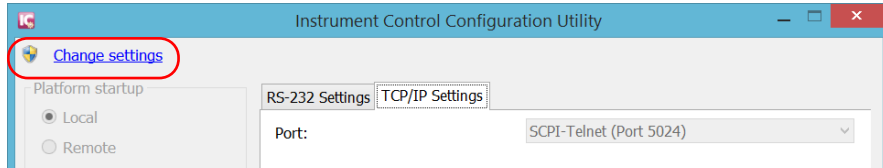
Communicating Through TCP/IP over Telnet

Configuring Your Unit and Modules to Work With TCP/IP over Telnet

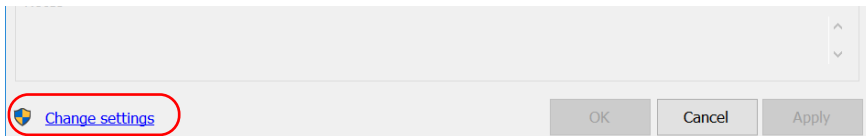
To activate TCP/IP over Telnet on your unit:

1. Access the Instrument Control Configuration utility:
 - On an FTB-500: From ToolBox, tap the **System Settings** button, then tap **Instrument Control Configuration**.
 - On an IQS-600: From IQS Manager, click the **Utilities** function tab, and then click **Instrument Control Configuration**.
 - On an FTB-1v2/FTB-1v2 Pro: From Mini ToolBox X, tap the **System Settings** button, then tap or click **Instrument Control Configuration**.
 - On an FTB-2/FTB-2 Pro/FTB-4 Pro, LTB-1, or LTB-2/LTB-8/LTB-12: From ToolBox X, tap or click the **System Settings** button, then tap or click **Instrument Control Configuration**.
2. If necessary, tap or click **Change settings**, and then, when the application prompts you to authorize the changes to your unit, select **Yes**.

FTB-500 or IQS-600



All other platforms

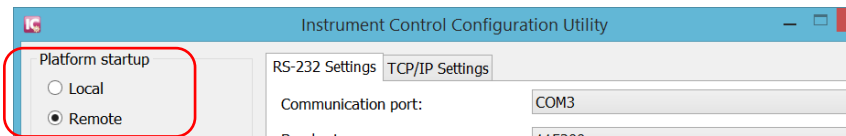


Communicating Through TCP/IP over Telnet

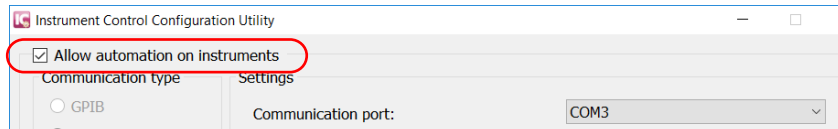
Configuring Your Unit and Modules to Work With TCP/IP over Telnet

3. Allow remote control:

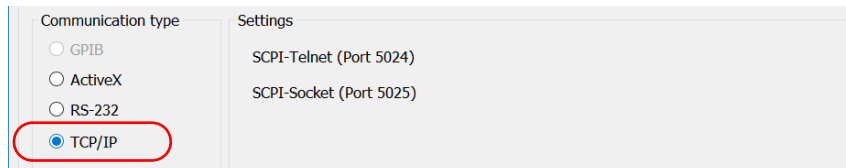
- On an FTB-500 or IQS-600: Under **Platform Startup**, select **Remote**.



- On an FTB-1v2/FTB-1v2 Pro, FTB-2/FTB-2 Pro/FTB-4 Pro, LTB-1, or LTB-2/LTB-8/LTB-12: Select the **Allow automation on instruments** check box.



4. Under **Communication Type**, select **TCP/IP**.



- 5. Tap or click **Apply**, and then **OK**.
- 6. Depending on the unit you are using, restart either IQS Manager, ToolBox, Mini ToolBox X, or ToolBox X.

Executing SCPI Commands Over Telnet

You can remotely control the modules by executing SCPI commands through TCP/IP over Telnet. The commands are sent remotely from the Telnet client (on a computer) to the Telnet server (in this case, the IQS, FTB, or LTB unit).

You can connect from a remote Windows or Linux (or Unix) client.

Note: *The Telnet client is available on almost all units in case you intend to use these units as computers to connect to a Telnet server. However, on an FTB-1v2, FTB-2, or LTB-1 running Windows Embedded 8 Standard, the Telnet client is not available. With these units, you must use the PuTTY application to establish communication.*

Before being able to send SCPI commands, you must first establish a connection to the Telnet service.

Note: *Socket (raw) connections are also available to send SCPI commands through TCP/IP, but these connections do not support the internal protocol commands listed hereafter. Such connections are similar to a communication over GPIB or RS-232 where you send SCPI commands to the instrument and read back responses over the opened socket connection, but without the extra message information found in Telnet.*

To execute SCPI commands over Telnet from a remote Windows client:

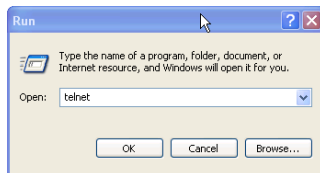
1. Establish a connection to the Telnet service as follows:

1a. From your computer, start Windows.

1b. On the taskbar, click **Start** (Start button ()) under Windows 8.1 and Windows 10) and select **Run**.

Note: Depending on the operating system, Run can sometimes be found under Windows System.

1c. In the **Open** box, type *telnet*, and then click **OK**.



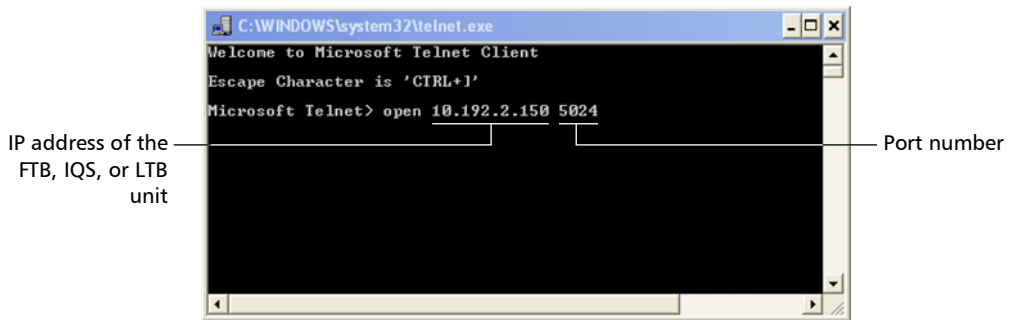
Note: If you receive an error message, it probably means that the Telnet client is not already activated on your computer. In this case, in the **Open** box, type `pkgmgr /iu:TelnetClient`, and then click **OK** to enable the client. Once it is done, perform step 3 again.

Communicating Through TCP/IP over Telnet

Executing SCPI Commands Over Telnet

- 1d.** In the displayed Telnet editor window, type the `OPEN <IP_ADDRESS_OF_TELNET_SERVER> <PORT>` command to connect to the TCP/IP Telnet Service.

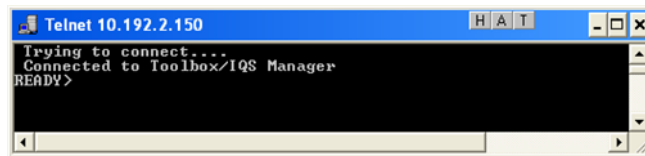
Example: `open 10.192.2.45 5024`



Note: Port 5024 is designated for sending SCPI commands in the Telnet protocol.

- 1e.** Press ENTER to establish a connection with the Service.

Once the connection is established, the `READY>` prompt is displayed in the Telnet editor window.



Note: If the connection cannot be established, the *Connection to host lost* message is displayed instead.

2. Enter the desired SCPI commands as follows:

- For a single SCPI command: Type or copy the desired command in the Telnet editor window, and then press ENTER to execute it.

```
Telnet 10.192.2.150
Trying to connect....
Connected to Toolbox/IQS Manager
READY> inst:cat:full?
Transport Blazer <10.7Gb/s> IQS-8130NGE\",13,\"Packet Blazer IQS-8510B\",14
READY>
```

- For multiple SCPI commands: Copy the desired commands from any script file, enclose them in a BEGIN and END block in the Telnet editor window, and then press ENTER. For more information, see *Internal Commands of the TCP/IP over Telnet Protocol* on page 22.

```
READY> BEGIN
LINS13:SOURce:DATA:TELEcom:CLEar
LINS13:OUTPut:TELEcom:CONNeCtor?
LINS13:OUTPut:TELEcom:CONNeCtor OPTical
LINS13:OUTPut:TELEcom:CONNeCtor?
LINS13:SOURce:DATA:TELEcom:INTERface:TYPE?
LINS13:SOURce:DATA:TELEcom:INTERface:TYPE OC3
LINS13:SOURce:DATA:TELEcom:INTERface:TYPE?
LINS13:SOURce:DATA:TELEcom:HOP:TYPE?
LINS13:SOURce:DATA:TELEcom:HOP:TYPE STS1
LINS13:SOURce:DATA:TELEcom:HOP:TYPE?
LINS13:SOURce:DATA:TELEcom:LOP:TYPE UT15
LINS13:SOURce:DATA:TELEcom:LOP:TYPE?
END
Previous test cleared successfully
OPTICAL
Command executed successfully
OPTICAL
NONE
Command executed successfully
OC3
NONE
Command executed successfully
STS1
Command executed successfully
UT15
READY>
```

3. Click  to close the session.

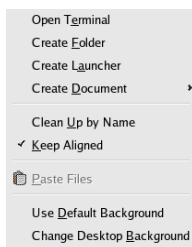
Communicating Through TCP/IP over Telnet

Executing SCPI Commands Over Telnet

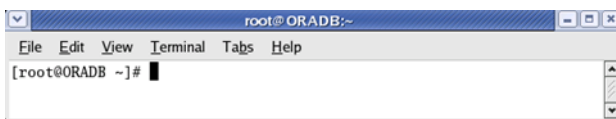
To execute SCPI commands over Telnet from a remote Linux client:

1. Establish a connection to the Telnet service as follows:

1a. From your computer, right-click on the desktop, and then click **Open Terminal**.



The command prompt is displayed in the Telnet editor window.

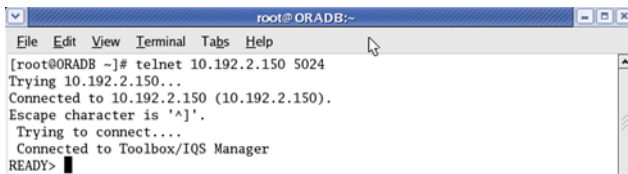


1b. Connect to the TCP/IP Telnet Service by typing the `OPEN <IP_ADDRESS_OF_TELNET_SERVER> <PORT>` command:

Example: `open 10.192.2.45 5024`

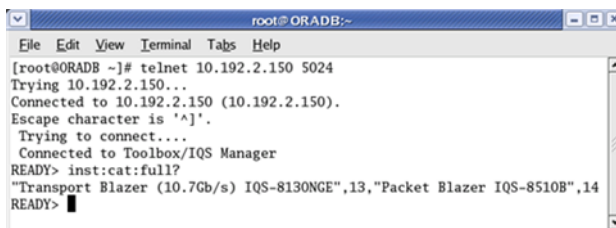
Note: Port 5024 is designated for sending SCPI commands in the Telnet protocol.

The connection is established when the message **Connected to Toolbox/IQS Manager** is displayed in the Telnet editor window.



2. Enter the desired SCPI commands as follows:

- For a single SCPI command: Type or copy the desired command in the Telnet editor window, and then press ENTER to execute it.



```
root@ORADB:~  
File Edit View Terminal Tabs Help  
[root@ORADB ~]# telnet 10.192.2.150 5024  
Trying 10.192.2.150...  
Connected to 10.192.2.150 (10.192.2.150).  
Escape character is '^]'.  
Trying to connect....  
Connected to Toolbox/IQS Manager  
READY> inst:cat:full?  
"Transport Blazer (10.7Gb/s) IQS-8130NGE",13,"Packet Blazer IQS-8510B",14  
READY> █
```

- For multiple SCPI commands: Copy the desired commands from any script file, enclose them in a BEGIN and END block in the Telnet editor window, and then press ENTER. For more information, see *Internal Commands of the TCP/IP over Telnet Protocol* on page 22.

3. Click to close the session.

Accessing Modules

A session can directly access an instrument using valid LINS commands such as LINS10:SOURce:DATA:TELEcom:CLEar.

However, in a context of multiple sessions, additional commands are available to inform other sessions that an instrument is currently in use.

When a session uses the CONNECT LINS command, another session using the same CONNECT LINS command will receive an error indicating that the instrument is already in use.

For example:

- SESSION 1 sends this command:
CONNECT LINS10

The command returns...OK

- SESSION 2 sends this command:
CONNECT LINS10

The commands returns...Error

At this moment, SESSION 2 knows that LINS10 is already in use by another session.

Note: *Both sessions must use these commands to ensure that they receive accurate information.*

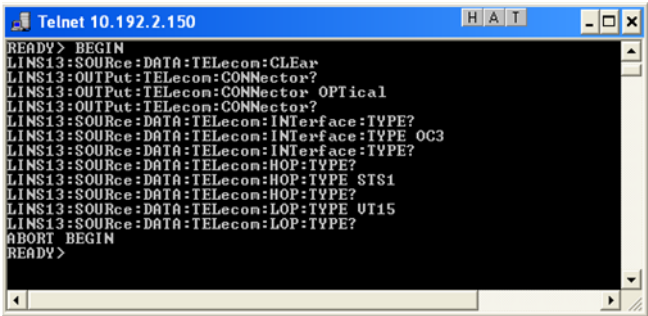
A module is released by one of the following actions:

- Executing the `CLOSE LINS` command to disconnect the link with the module. For more information, see *CLOSE LINS* on page 26.
- Executing the `CLOSE` command to end the current session once the execution of all the desired commands has been completed. For more information, see *CLOSE* on page 25.
- Closing the current session by clicking the Close button on the Telnet editor windows' title bar.
- Shutting down and restarting the client computer.
- A network interruption.

A module can also be released when you terminate the communication by using the `KILL LINS` command. For more information, see *KILL LINS* on page 30.

Internal Commands of the TCP/IP over Telnet Protocol

The internal commands allow you to perform certain actions such as send SCPI commands as a script instead of one by one, force the disconnection of an active session, view the status of modules and of connected clients, etc. The internal commands are not case-sensitive.

ABORT BEGIN	
Description	The ABORT BEGIN command prevents the execution of the SCPI commands that are enclosed in a BEGIN and END block, and returns to the READY> prompt in the Telnet editor window.
Syntax	ABORT BEGIN
Examples	

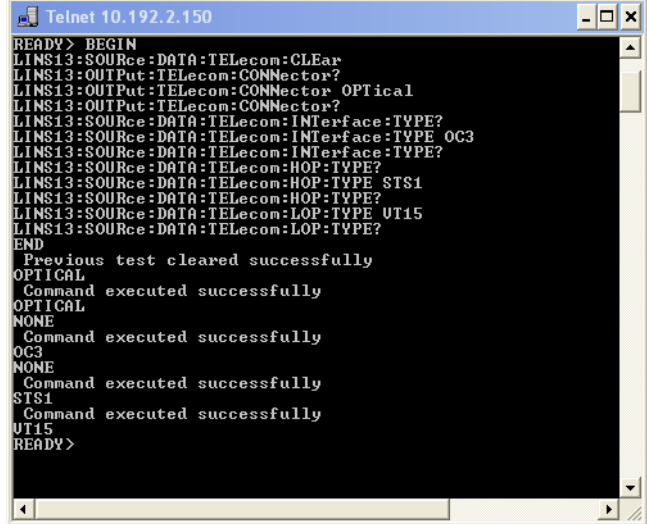
BEGIN and END	
Description	The BEGIN and END commands allow to define blocks of SCPI commands (script) in a Telnet editor window. The SCPI commands enclosed in BEGIN and END blocks will be executed in batch.
Syntax	BEGIN <SCPI_command> <SCPI_command> ... END

Communicating Through TCP/IP over Telnet

Internal Commands of the TCP/IP over Telnet Protocol

BEGIN and END

Examples



```
READY> BEGIN
LINS13:SOURCE:DATA:TELEcom:CLEAr
LINS13:OUTPut:TELEcom:CONNector?
LINS13:OUTPut:TELEcom:CONNector OPTICAL
LINS13:OUTPut:TELEcom:CONNector?
LINS13:SOURCE:DATA:TELEcom:INterface:TYPE?
LINS13:SOURCE:DATA:TELEcom:INterface:TYPE OC3
LINS13:SOURCE:DATA:TELEcom:INterface:TYPE?
LINS13:SOURCE:DATA:TELEcom:HOP:TYPE?
LINS13:SOURCE:DATA:TELEcom:HOP:TYPE STS1
LINS13:SOURCE:DATA:TELEcom:HOP:TYPE?
LINS13:SOURCE:DATA:TELEcom:LOP:TYPE UT15
LINS13:SOURCE:DATA:TELEcom:LOP:TYPE?
END
Previous test cleared successfully
OPTICAL
Command executed successfully
OPTICAL
NONE
Command executed successfully
OC3
NONE
Command executed successfully
STS1
Command executed successfully
UT15
READY>
```

Notes

- To execute a single command, simply type or paste the command in the Telnet editor window.
- You cannot enclose internal commands in a BEGIN and END block, except the ABORT BEGIN command.

Communicating Through TCP/IP over Telnet

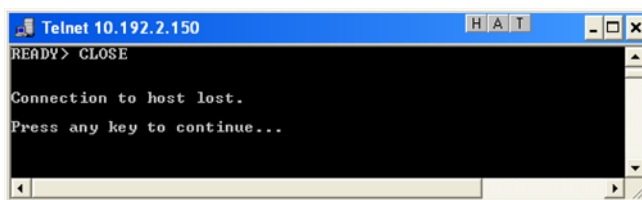
Internal Commands of the TCP/IP over Telnet Protocol

CLOSE

Description The CLOSE command terminates the current Telnet session.

Syntax CLOSE

Examples



```
Telnet 10.192.2.150
READY> CLOSE

Connection to host lost.
Press any key to continue...
```

Communicating Through TCP/IP over Telnet

Internal Commands of the TCP/IP over Telnet Protocol

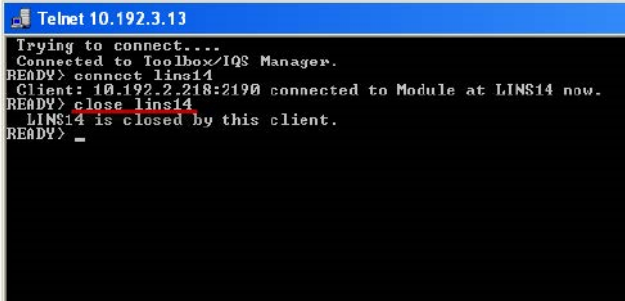
CLOSE LINS	
Description	This command allows to close any active connections that have been previously established with the CONNECT LINS command (see <i>CONNECT LINS</i> on page 28). You can send this command to close all client's connections to any module, including the current connection.
Syntax	The syntax of the command vary according to the type of platform you are using. ➤ For FTB-500 and IQS-600: CLOSE LINS<Unit_Number> <Slot_Number> You must specify the unit number and the slot number identifying the module for which you want to close the connections. ➤ For FTB-1v2/FTB-1v2 Pro, FTB-2/ FTB-2 Pro/FTB-4 Pro, LTB-1, and LTB-2/LTB-8/LTB-12: CLOSE LINS<Logical_Instrument_Number> You must specify the logical instrument number corresponding to the module for which you want to close the connections. This number is configurable from the Remote Control Configuration application.

Communicating Through TCP/IP over Telnet

Internal Commands of the TCP/IP over Telnet Protocol

CLOSE LINS

Examples



```
Telnet 10.192.3.13
Trying to connect...
Connected to Toolbox/IQS Manager.
READY> connect lins14
Client: 10.192.2.218:2190 connected to Module at LINS14 now.
READY> close lins14
LINS14 is closed by this client.
READY> _
```

Notes

- If the command is not executed successfully, a possible reason could be that the provided information does not correspond to a valid LINS.
- On all platforms except FTB-500 and IQS-600, CLOSE LINS does not prevent another session from accessing the instrument using a direct LINS command.

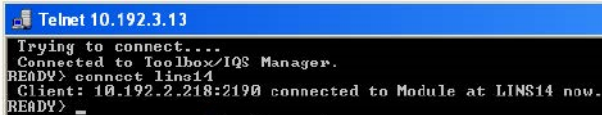
Communicating Through TCP/IP over Telnet

Internal Commands of the TCP/IP over Telnet Protocol

CONNECT LINS	
Description	This command allows to inform other sessions that you are connected to one or more instruments.
Syntax	The syntax of the command vary according to the type of platform you are using. ➤ For FTB-500 and IQS-600: CONNECT LINS<Unit_Number><Slot_Number> You must specify the unit number and the slot number identifying the module to which the session will connect. ➤ For FTB-1v2/FTB-1v2 Pro, FTB-2/ FTB-2 Pro/FTB-4 Pro, LTB-1, and LTB-2/LTB-8/LTB-12: CONNECT LINS<Logical_Instrument_Number> You must specify the logical instrument number corresponding to the module to which the session will connect. This number is configurable from the Remote Control Configuration application.

CONNECT LINS

Examples



```
Telnet 10.192.3.13
Trying to connect...
Connected to Toolbox/IQS Manager.
READY> connect lins14
Client: 10.192.2.218:2190 connected to Module at LINS14 now.
READY> _
```

Notes

- On all platforms except FTB-500 and IQS-600, for compatibility reasons, you can connect to a module with a valid instrument command and a valid LINS (such as Lins10:SOURce:DATA:TELEcom:CLEAr). However, there will be no way for other sessions to know that you are connected to this instrument.
- If the command is not executed successfully, the possible reasons could be:
 - The module is already connected to a different client session.
 - The provided information does not correspond to a valid LINS.

Communicating Through TCP/IP over Telnet

Internal Commands of the TCP/IP over Telnet Protocol

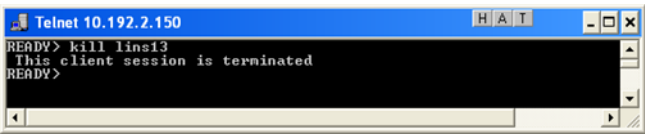
KILL LINS

Description This command allows any user to terminate the session that contains the specified connection (LINS), if this connection has been previously established with the CONNECT LINS command (see *CONNECT LINS* on page 28). This means that it will terminate all active connections that belong to a session if these connections have been previously established with CONNECT LINS.

Syntax The syntax of the command vary according to the type of platform you are using.

- For FTB-500 and IQS-600:
KILL LINS<Unit_Number> <Slot_Number>
You must specify the unit number and the slot number identifying the module for which you want to terminate the session.
- For FTB-1v2/FTB-1v2 Pro, FTB-2/ FTB-2 Pro/FTB-4 Pro, LTB-1, and LTB-2/LTB-8/LTB-12:
KILL LINS<Logical_Instrument_Number>
You must specify the logical instrument number corresponding to the module for which you want to terminate the session. This number is configurable from the Remote Control Configuration application.

Examples



Communicating Through TCP/IP over Telnet

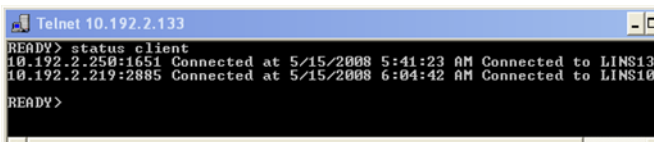
Internal Commands of the TCP/IP over Telnet Protocol

KILL LINS

Notes

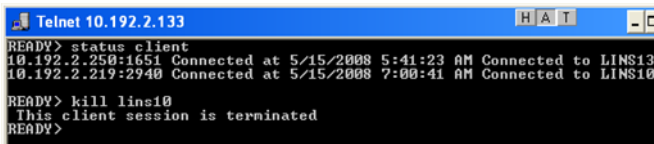
- To know the status of the modules before terminating connections using the KILL LINS command, you can first enter the STATUS CLIENT command. For more information, see *STATUS CLIENT* on page 32.

In the example below, two modules are connected: LINS13 and LINS10.



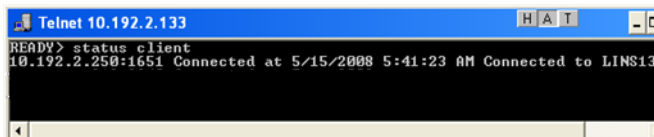
```
Telnet 10.192.2.133
READY> status client
10.192.2.250:1651 Connected at 5/15/2008 5:41:23 AM Connected to LINS13
10.192.2.219:2885 Connected at 5/15/2008 6:04:42 AM Connected to LINS10
READY>
```

- To disconnect the LINS10 module used by another session, enter the *kill lins10* command. A confirmation message is displayed once the module is disconnected.



```
Telnet 10.192.2.133
READY> status client
10.192.2.250:1651 Connected at 5/15/2008 5:41:23 AM Connected to LINS13
10.192.2.219:2940 Connected at 5/15/2008 7:00:41 AM Connected to LINS10
READY> kill lins10
This client session is terminated
READY>
```

- Enter again the STATUS CLIENT command to confirm the termination of the module (LINS10 in our example). Only the information of the remaining connected client is displayed.



```
Telnet 10.192.2.133
READY> status client
10.192.2.250:1651 Connected at 5/15/2008 5:41:23 AM Connected to LINS13
```

Communicating Through TCP/IP over Telnet

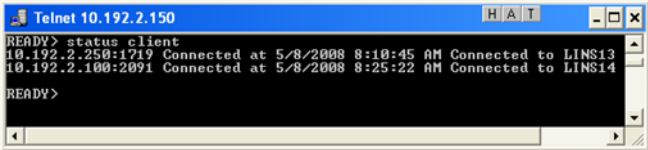
Internal Commands of the TCP/IP over Telnet Protocol

STATUS CLIENT

Description This command lists out all clients with their connection time and modules.

Syntax STATUS CLIENT

Examples

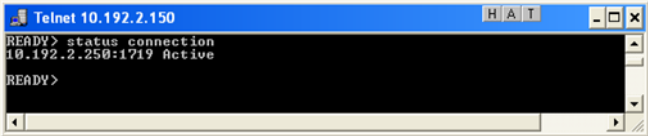


STATUS CONNECTION

Description This command lists out all the connections with their *Idle* or *Active* status.

Syntax STATUS CONNECTION

Examples



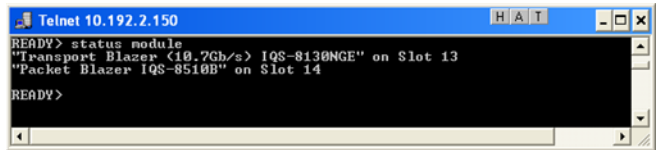
Notes By default, any connection that is idle for 5 minutes or more is identified as *Idle*.

STATUS MODULE

Description This command lists out all the modules with the slot numbers where they are located (FTB-500 and IQS-600), or with their LINS (all other platforms).

Syntax STATUS MODULE

Examples



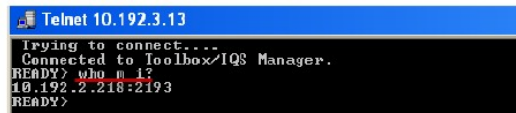
```
Telnet 10.192.2.150
READY> status module
"Transport Blazer <10.7Gb/s> IQS-8130NGE" on Slot 13
"Packet Blazer IQS-8510B" on Slot 14
READY>
```

WHO M I?

Description This command retrieves the IP address and the communication port of the current session.

Syntax WHO M I?

Examples



```
Telnet 10.192.3.13
Trying to connect...
Connected to Toolbox/IQS Manager.
READY> who m i?
10.192.2.218:2193
READY>
```


4 SCPI Command List - General

Note: The symbol || precedes a parallel interface command when a different command is used for a serial interface.

Note: For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:
:SOURce:DATA:TELEcom:PORT

Note: For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:
:SOURce:DATA:TELEcom:LINK

Delay Between SCPI Commands

:CONFig:WAI:TIME

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE
:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

Date/Time Format

:CONFig:TI:ME:FORMat
:CONFig:TI:ME:FORMat?

Test Applications

:SOURce:DATA:TELEcom:TEST:TYPE
:SOURce:DATA:TELEcom:TEST:TYPE?

DSn/PDH BERT and NI/CSU Emulation:
:SOURce:DATA:TELEcom:SONet:TEST:TYPE
:SOURce:DATA:TELEcom:SONet:TEST:TYPE?

Status Bar

Live Power

:FETCh:DATA:TELEcom:OPTical:LIVE:POWer:STATus?

:FETCh:DATA:TELEcom:OPTical:LIVE:POWer?

Global Indicator

Alarms/Errors

:FETCh:DATA:TELEcom:AlarmERRor:CURRent?

:FETCh:DATA:TELEcom:AlarmERRor:HISTory?

Time Elapsed

:FETCh:DATA:TELEcom:TEST:TIME?

Start/Stop/TX Button

Start/Stop button

:SOURce:DATA:TELEcom:TEST

:SOURce:DATA:TELEcom:TEST?

TX button

:SOURce:DATA:TELEcom:ETHernet:STReam:STATus

:SOURce:DATA:TELEcom:ETHernet:STReam:STATus?

Reset Button

:SOURce:DATA:TELEcom:RESet

Save/Load Button

:CONFig:DATA:TELEcom:LOAD

:CONFig:DATA:TELEcom:SAVE

Laser Button

:OUTPut:TELEcom:LASer

:OUTPut:TELEcom:LASer?

Discover Remote Button

See Discover Remote Button.

Lpbk Tool Button

See Lpbk Tool Button (Loopback Tool)

See Lpbk Tool Button (Interface)

Refer to Network on page 342

Refer to SFP+ on page 240

Discover Remote Button

Remote Module Type

:SOURce:DATA:TELEcom:ETHernet:REMote:MODule:TYPE

:SOURce:DATA:TELEcom:ETHernet:REMote:MODule:TYPE

Remote Modules Discovery (EXFO)

Scan

:SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet

:SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet?

Target

:SOURce:DATA:TELEcom:ETHernet:REMote:SCANtarget:TYPE

:SOURce:DATA:TELEcom:ETHernet:REMote:SCANtarget:TYPE?

Status

:FETCh:DATA:TELEcom:ETHernet:REMote:RSCStatus?

SCPI Command List - General

Discover Remote Button

Table

:FETCh:DATA:TELEcom:ETHernet:DUALtest:STATistics?

Loop Up

:SOURce:DATA:TELEcom:ETHernet:REMote:LOOP:UP

Loop Down

:SOURce:DATA:TELEcom:ETHernet:REMote:LOOP:DOWN

Connect

:SOURce:DATA:TELEcom:ETHernet:REMote:CONNect

:SOURce:DATA:TELEcom:ETHernet:REMote:CONNect?

Disconnect

:SOURce:DATA:TELEcom:ETHernet:REMote:DISConnect

Remote Modules Discovery (3rd Party Loopback)

Use Stream Destination from Test Application

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:USTream

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:USTream?

Loop Layer

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:LAYer

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:LAYer?

Destination MAC Address

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:MAC

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:MAC?

Destination IP Address

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:IP

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:IP?

Destination Port

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:PORT

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:PORT?

Remote Module ID

:FETCh:DATA:TELEcom:ETHernet:REMote:TPARty:MODule:ID?

Remote Status

:FETCh:DATA:TELEcom:ETHernet:REMote:TPARty:MODUle:STATus?

Loop UP/Down

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:UP

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:DOWN

Lpbk Tool Button (Loopback Tool)



IMPORTANT

Before to be able to use the Loopback Tool it has to be enabled using the command:

SOUR:DATA:TEL:ETH:SLT:ENAB ON

Enable/Disable Loopback Tool

:SOURce:DATA:TELEcom:ETHernet:SLTool:ENABle

:SOURce:DATA:TELEcom:ETHernet:SLTool:ENABle?

Status

:FETCh:DATA:TELEcom:TEST:SLTool:STATus?

Start Time

:FETCh:DATA:TELEcom:TEST:SLTool:STARt:TIME?

Transparent (Pseudo-Physical)

:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:TRANSpaRent:MODE:ENABle

*:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:TRANSpaRent:MODE:ENABle
?*

Loopback Mode

:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:MODE?

SCPI Command List - General

Lpbk Tool Button (Loopback Tool)

Traffic

- Line Utilization

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:LINE:UTILization?

- Ethernet BW

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:BANDwidth?

- Frame Rate

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAME:RATE?

- Frame Count

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAME:COUNT?

OAM Responder

- Check Box

:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle

:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle?

- TX/RX Count

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFFic:RESPonder:TX:COUNT?

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFFic:RESPonder:RX:COUNT?

- TX/RX Total

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFFic:RESPonder:TX:TOTal?

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFFic:RESPonder:RX:TOTal?

Loopback button

:SOURce:DATA:TELecom:ETHernet:SLTool:TEST

:SOURce:DATA:TELecom:ETHernet:SLTool:TEST?

Lpbk Tool Button (Interface)



IMPORTANT

Before to be able to use the Loopback Tool it has to be enabled using the command: SOUR:DATA:TEL:ETH:SLT:ENAB ON

Physical Interface

- Interface/Rate

:SOURce:DATA:TELEcom:SLTool:ITYPE

:SOURce:DATA:TELEcom:SLTool:ITYPE?

- Connector

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:TRANsceiver?

- Wavelength

:SENSe:DATA:TELEcom:OPTical:SLTool:LASer:WAVelength?

For tunable transceivers:

:SOURce:DATA:TELEcom:OPTical:SLTool:TUNable:WAVelength?

- Modify Wavelength

Refer to *Modify Wavelength (SFP)* on page 419.

- Clock Mode

:INPut:TELEcom:SLTool:BACKplane:CLOCK?

- RX Power

:SENSe:DATA:TELEcom:OPTical:SLTool:RX:POWer?

- Power Range

:SENSe:DATA:TELEcom:OPTical:SLTool:POWer:RANGe?

- RX Frequency

:SENSe:DATA:TELEcom:OPTical:SLTool:PORT:FREQuency?

:SENSe:DATA:TELEcom:ELECtrical:SLTool:PORT:FREQuency?

SCPI Command List - General

Lpbk Tool Button (Interface)

Link

- LINK and Alarms

:FETCh:DATA:TELEcom:ETHernet:SLTool:ALARm:LINK?

- Auto-Negotiation

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:NEGotiation

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:NEGotiation?

- Speed

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:BANDwidth

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:BANDwidth?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth?

:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:BANDwidth?

- Duplex

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:DUPLex?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex?

:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:DUPLex?

- Flow Control

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:FCONtrol?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ANEGotiation:FCONtrol?

:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:FCONtrol?

- Cable Mode

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLE:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLE:MODE?

Type selection

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLE:MODE:STATus

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLE:MODE:STATus?

- Local Clock

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:LOCAl:CLOCK

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:LOCAl:CLOCK?

:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:LOCAl:CLOCK?

About (i) Button

Module Details

- Module ID

:FETCh:DATA:TELEcom:MODule:DETailS:MID?

- Serial Number

:FETCh:DATA:TELEcom:MODule:DETailS:SNUMber?

Assembly Hardware Revision

:FETCh:DATA:TELEcom:MODule:DETailS:AHRevision?

- Calibration Date

:FETCh:DATA:TELEcom:MODule:DETailS:CDAte?

- Software Product Verison

:FETCh:DATA:TELEcom:MODule:DETailS:SPVersion?

5 SCPI Command List - Setup

Note: The symbol || precedes a parallel interface command when a different command is used for a serial interface.

Note: For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:
:SOURce:DATA:TELEcom:PORT

Note: For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:
:SOURce:DATA:TELEcom:LINK

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BERT (FlexE) on page 64

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CFP4/OSFP/QSFP/SFP/SFP+/SFP28 on page 67

Clients - BERT, see BERT (FlexE) on page 64

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SCPI Command List - Setup

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System / System - General on page 166

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System - TA-Sync, see TA/TA4-... on page 169

SCPI Command List - Setup

1588 PTP (Client)

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Traces (OTN) on page 174

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1588 PTP (Client)

PTP

Link Status

:FETCh:DATA:TELeom:PACKetsync:PTP:STATus?

Profile

:FETCh:DATA:TELeom:PACKetsync:PTP:PROFile?

Domain

:SOURce:DATA:TELeom:PACKetsync:PTP:DOMain

:SOURce:DATA:TELeom:PACKetsync:PTP:DOMain?

Framing

:FETCh:DATA:TELeom:PACKetsync:PTP:FRAMing?

Pkt Mode

:FETCh:DATA:TELeom:PACKetsync:PTP:MODE?

Multicast MAC

Selection from the list:

:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC

:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC?

Selecting User Defined:

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:STaTus

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:STaTus?

Entering User Defined Address:

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:ADDReSS

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:ADDReSS?

GM/BC IP Address

IPv4

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMIPaddress

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMIPaddress?

IPv6

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMADdress:IPVersion

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMADdress:IPVersion?

Flow Label (IPv6)

:SOURce:DATA:TELEcom:PACKetsync:PTP:FLABel

:SOURce:DATA:TELEcom:PACKetsync:PTP:FLABel?

IP TOS/DS / Traffic Class (TOS/DS)

:SOURce:DATA:TELEcom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELEcom:PACKetsync:PTP:IPTosds?

Mechanism

:FETCh:DATA:TELEcom:PACKetsync:PTP:MECHanism?

Delay Mode

:FETCh:DATA:TELEcom:PACKetsync:PTP:DELAy:MODE?

Connect

:SOURce:DATA:TELEcom:PACKetsync:PTP:CONNect:ENABled

:SOURce:DATA:TELEcom:PACKetsync:PTP:CONNect:ENABled?

Negotiation Status

:FETCh:DATA:TELEcom:PACKetsync:PTP:NEGotiation:STaTus?

PTP - Message Rate

Announce

:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:ANNounce
:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:ANNounce?

Sync

:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:SYNC
:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:SYNC?

Delay-Request

:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:DElay:REQuest
:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:DElay:REQuest?

PTP - Service Duration

Lease Duration

:FETCh:DATA:TELEcom:PACKetsync:PTP:LEASe:DURation?

Renewal Interval

:FETCh:DATA:TELEcom:PACKetsync:PTP:RENewal:INTerval?

Alarm Timeout/Threshold

Receipt Timeout

:SOURce:DATA:TELEcom:PACKetsync:PTP:RECeipt:TIMEout
:SOURce:DATA:TELEcom:PACKetsync:PTP:RECeipt:TIMEout?

IPDV Threshold

:SOURce:DATA:TELEcom:PACKetsync:PTP:IPDV:THReshold
:SOURce:DATA:TELEcom:PACKetsync:PTP:IPDV:THReshold?

Quality Level

QL Mismatch Monitoring

:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:MISMatch:ENABLEd
:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:MISMatch:ENABLEd?

Expected QL

:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:EXpected
:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:EXpected?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:PACKetsync:PTP:VERDict:ENABled
:SOURce:DATA:TELEcom:PACKetsync:PTP:VERDict:ENABled?

Restore 1588 PTP Defaults

:SOURce:DATA:TELEcom:REStore:DEFault

1588 PTP (GM)

PTP

Link Status

:FETCh:DATA:TELEcom:PACKetsync:PTP:STATus?

Profile

:FETCh:DATA:TELEcom:PACKetsync:PTP:PROFile?

Domain

:SOURce:DATA:TELEcom:PACKetsync:PTP:DOMain
:SOURce:DATA:TELEcom:PACKetsync:PTP:DOMain?

Framing

:FETCh:DATA:TELEcom:PACKetsync:PTP:FRAMing?

Pkt Mode

:FETCh:DATA:TELEcom:PACKetsync:PTP:MODE?

SCPI Command List - Setup

1588 PTP (GM)

Multicast MAC

Selection from the list:

:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC

:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC?

Enabling User Defined:

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:STATus

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:STATus?

Entering User Defined Address:

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:ADDRess

:SOURce:DATA:TELEcom:PACKetsync:PTP:UDMAc:ADDRess?

IP TOS/DS / Traffic Class (TOS/DS)

:SOURce:DATA:TELEcom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELEcom:PACKetsync:PTP:IPTosds?

Mechanism

:FETCh:DATA:TELEcom:PACKetsync:PTP:MECHanism?

Clock Type

:SOURce:DATA:TELEcom:PACKetsync:PTP:CLOCK:TYPE

:SOURce:DATA:TELEcom:PACKetsync:PTP:CLOCK:TYPE?

Delay Mode

:FETCh:DATA:TELEcom:PACKetsync:PTP:DELay:MODE?

Delay Req Receipt Timeout

:SOURce:DATA:TELEcom:PACKetsync:PTP:RECeipt:TIMEout

:SOURce:DATA:TELEcom:PACKetsync:PTP:RECeipt:TIMEout?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:PACKetsync:PTP:VERDict:ENABLEd

:SOURce:DATA:TELEcom:PACKetsync:PTP:VERDict:ENABLEd?

Clock Attributes

Clock Class

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCLass
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCLass?
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCCode
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCCode?

Clock Accuracy

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CACCuracy
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CACCuracy?

Time Source

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:TSource
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:TSource?

Clock Identity

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CIDentity?

UTC Offset

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCoffset
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCoffset?

Priority 1

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PONE
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PONE?

Priority 2

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PTWO
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PTWO?

Steps Removed

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:SREMOVED
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:SREMOVED?

Current UTC Offset Valid

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCoffset:VALid
:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCoffset:VALid

SCPI Command List - Setup

BERT and Unframed BERT (Transport)

PTP Timescale

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:TIMescale

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:TIMescale?

Time Traceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:TTRaceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:TTRaceable?

Frequency Traceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:FTRaceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMClock:FTRaceable?

Restore 1588 PTP Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

BERT and Unframed BERT (Transport)

Note: For EtherBERT Unframed serial interface, see *EtherBERT and Unframed BERT* on page 79.

Pattern

LINK

:FETCh:DATA:TELecom:EOTN:ALARm:LINK?

Coupled RX to TX

Framed

:SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELecom:COUPled?

Unframed

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus?

All Lanes

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:ALL

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:ALL?

TX Pattern

Framed

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

Unframed

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?

:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX?

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELEcom:PATtern:TYPE

:SENSe:DATA:TELEcom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

SCPI Command List - Setup

BERT and Unframed BERT (Transport)

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?
:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX?
:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX?

Pattern Sync

:FETCh:DATA:TELEcom:PATtern:ALARm:SYNC?
:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and BER Threshold

- Framed

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE
:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?
:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt
:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?
:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

- Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt?
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict:DISable

Lane TX/RX Pattern and Invert

TX Pattern

:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX
:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX?

RX Pattern

:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX?

Service Disruption**Disruption Monitoring**

:SENSe:DATA:TELEcom:SDT

:SENSe:DATA:TELEcom:SDT?

Defect

:SENSe:DATA:TELEcom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELEcom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELEcom:SDT:OTN:DSElection

:SENSe:DATA:TELEcom:SDT:OTN:DSElection?

No Defect time

:SENSe:DATA:TELEcom:SDT:NDTime

:SENSe:DATA:TELEcom:SDT:NDTime?

Pass/Fail Verdict

:SENSe:DATA:TELEcom:SDT:VERDict

:SENSe:DATA:TELEcom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELEcom:SDT:THReshold

:SENSe:DATA:TELEcom:SDT:THReshold?

Restore [test] Defaults

:SOURce:DATA:TELEcom:OTN:REStore:DEFault

BERT and Unframed BERT (CPRI/OBSAI)

Pattern

Coupled RX to TX

Framed

:SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELecom:COUPled?

Unframed

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus?

TX Pattern

Framed

:SOURce:DATA:TELecom:PATtern:TYPE

:SOURce:DATA:TELecom:PATtern:TYPE?

:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELecom:POLarity

:SOURce:DATA:TELecom:POLarity?

Unframed

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELecom:PATtern:TYPE

:SENSe:DATA:TELecom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX?

Pattern Sync

:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt?

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict:DISable

CPRI

Pass/Fail Verdict

:SOURce:DATA:TELEcom:CPRI:VERDict:ENABle

:SOURce:DATA:TELEcom:CPRI:VERDict:ENABle?

SCPI Command List - Setup

BERT and Unframed BERT (CPRI/OBSAI)

OBSAI

Pass/Fail Verdict

:SOURce:DATA:TELEcom:CPRI:OBSai:VERDict:ENABLE

:SOURce:DATA:TELEcom:CPRI:OBSai:VERDict:ENABLE?

Service Disruption

Disruption Monitoring

:SENSe:DATA:TELEcom:SDT

:SENSe:DATA:TELEcom:SDT?

No Defect Time

:SENSe:DATA:TELEcom:SDT:NDTime

:SENSe:DATA:TELEcom:SDT:NDTime?

Pass/Fail Verdict

:SENSe:DATA:TELEcom:SDT:VERDict

:SENSe:DATA:TELEcom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELEcom:SDT:THReshold

:SENSe:DATA:TELEcom:SDT:THReshold?

Restore CPRI/OBSAI Defaults

:SOURce:DATA:TELEcom:REStore:DEFault

BERT - Client - DCO BERT

LINK

:SOURce:DATA:TELEcom:LINK

:SOURce:DATA:TELEcom:LINK

Pattern

Coupled RX to TX

:SENSe:DATA:TELEcom:COUPled

:SENSe:DATA:TELEcom:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?

TX Pattern

:SOURce:DATA:TELEcom:PATtern:TYPE?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

RX Pattern

:SENSe:DATA:TELEcom:PATtern:TYPE?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Bit Error

Pass/Fail Verdict and BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

BERT and Unframed BERT (eCPRI)

Pattern

Coupled RX to TX

Framed

:SENSe:DATA:TELEcom:COUPled

:SENSe:DATA:TELEcom:COUPled?

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:COUPled

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?

TX Pattern

Framed

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

Unframed

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELEcom:PATtern:TYPE

:SENSe:DATA:TELEcom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX?

Pattern Sync

:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt?

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict:DISable

BERT (FlexE)

Pattern on Client ID (for FlexE)

:SOURce:DATA:TELEcom:FETHernet:PATtern:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:PATtern:CLlent:IDentifier?

Pattern

Coupled RX to TX

:SENSe:DATA:TELEcom:COUPled

:SENSe:DATA:TELEcom:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?

TX Pattern

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

RX Pattern

Framed

:SENSe:DATA:TELEcom:PATtern:TYPE

:SENSe:DATA:TELEcom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Pattern Sync

:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Bit Error**Pass/Fail Verdict and BER Threshold**

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Cable Test

Global Options

Wiring Standards

:SOURce:DATA:TELeom:CABLeTest:WIREstandard

:SOURce:DATA:TELeom:CABLeTest:WIREstandard?

Pass/Fail Verdict

Prop. Delay Threshold

:SOURce:DATA:TELeom:CABLeTest:PROPdelay:THReshold

:SOURce:DATA:TELeom:CABLeTest:PROPdelay:THReshold?

Delay Skew Threshold

:SOURce:DATA:TELeom:CABLeTest:SKEW:THReshold

:SOURce:DATA:TELeom:CABLeTest:SKEW:THReshold?

Length Threshold

:SOURce:DATA:TELeom:CABLeTest:LENGth:THReshold

:SOURce:DATA:TELeom:CABLeTest:LENGth:THReshold?

Restore Cable Test Defaults

:SOURce:DATA:TELeom:CABLeTest:REStore:THReshold:DEFault

CFP4/OSFP/QSFP/SFP/SFP+/SFP28

Port

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

FlexE PHY Number

:SOURce:DATA:TELEcom:FETHernet:GROup:PNUMber?

FlexO Instance ID

:SOURce:DATA:TELEcom:FOTN:INSTance:IDentifier?

CFP4

:SENSe:DATA:TELEcom:OPTical:CFP:MODUle:ID?

:SENSe:DATA:TELEcom:OPTical:CFP:VENDor:NAME?

:SENSe:DATA:TELEcom:OPTical:CFP:PART:NUMBer?

:SENSe:DATA:TELEcom:OPTical:CFP:SERial:NUMBer?

:SENSe:DATA:TELEcom:OPTical:CFP:REVisIon?

:SENSe:DATA:TELEcom:OPTical:CFP:FIRMware:VERSion?

:SENSe:DATA:TELEcom:OPTical:CFP:CONNector:TYPE?

:SENSe:DATA:TELEcom:OPTical:CFP:SPEEd?

:SENSe:DATA:TELEcom:OPTical:CFP:TYPE?

:SENSe:DATA:TELEcom:OPTical:CFP:POWer:CLASs?

:SENSe:DATA:TELEcom:OPTical:CFP:POWer:CLASs?

:SENSe:DATA:TELEcom:OPTical:CFP:POWer:CLASs?

:FETCh:DATA:TELEcom:OPTical:CONNector:CURRent:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNector:CURRent:MAXimum?

:FETCh:DATA:TELEcom:OPTical:CONNector:POWer:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNector:POWer:MAXimum?

:FETCh:DATA:TELEcom:OPTical:CONNector:TEMPerature:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNector:TEMPerature:MAXimum?

:SENSe:DATA:TELEcom:OPTical:CFP:WDM:TYPE?

SCPI Command List - Setup

CFP4/OSFP/QSFP/SFP/SFP+/SFP28

:SENSe:DATA:TELEcom:OPTical:CFP:CLEI:PRESeNce?

:SENSe:DATA:TELEcom:OPTical:CFP:MODE?

:SENSe:DATA:TELEcom:OPTical:CFP:LRATio:TYPE?

OSFP

:SENSe:DATA:TELEcom:OPTical:OSFP:MODUle:ID?

:SENSe:DATA:TELEcom:OPTical:OSFP:VENdOr:NAME?

:SENSe:DATA:TELEcom:OPTical:OSFP:CLEi:CODE?

:SENSe:DATA:TELEcom:OPTical:OSFP:PART:NUMBer?

:SENSe:DATA:TELEcom:OPTical:OSFP:SERial:NUMBer?

:SENSe:DATA:TELEcom:OPTical:OSFP:REVisioN?

:SENSe:DATA:TELEcom:OPTical:OSFP:REVisioN:COMPLiance?

:SENSe:DATA:TELEcom:OPTical:OSFP:CONNeCtor:TYPE?

:SENSe:DATA:TELEcom:OPTical:OSFP:SPEEd?

:SENSe:DATA:TELEcom:OPTical:OSFP:TYPE?

:SENSe:DATA:TELEcom:OPTical:OSFP:POWEr:CLASs?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:CURReNt:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:CURReNt:MAXimum?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:POWEr:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:POWEr:MAXimum?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:TEMPerature:ACTual?

:FETCh:DATA:TELEcom:OPTical:CONNeCtor:TEMPerature:MAXimum?

:SENSe:DATA:TELEcom:OPTical:OSFP:MODE?

QSFP

:SENSe:DATA:TELEcom:OPTical:QSFP:MODUle:ID?
:SENSe:DATA:TELEcom:OPTical:QSFP:VENDor:NAME?
:SENSe:DATA:TELEcom:OPTical:QSFP:PART:NUMBer?
:SENSe:DATA:TELEcom:OPTical:QSFP:SERial:NUMBer?
:SENSe:DATA:TELEcom:OPTical:QSFP:REVisIon?
:SENSe:DATA:TELEcom:OPTical:QSFP:REVisIon:COMPLiance?
:SENSe:DATA:TELEcom:OPTical:QSFP:CONNeCtor:TYPE?
:SENSe:DATA:TELEcom:OPTical:QSFP:SPEEd?
:SENSe:DATA:TELEcom:OPTical:QSFP:TYPE?
:SENSe:DATA:TELEcom:OPTical:QSFP:POWeR:CLASs?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:CURRent:ACTual?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:CURRent:MAXimum?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:POWeR:ACTual?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:POWeR:MAXimum?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:TEMPerature:ACTual?
:FETCh:DATA:TELEcom:OPTical:CONNeCtor:TEMPerature:MAXimum?
:SENSe:DATA:TELEcom:OPTical:QSFP:CLEI:CODE?
:SENSe:DATA:TELEcom:OPTical:QSFP:MODE?

SCPI Command List - Setup

CFP4/OSFP/QSFP/SFP/SFP+/SFP28

SFP/SFP+/SFP28

:SENSe:DATA:TELEcom:OPTical:SFP:MODule:ID?
:SENSe:DATA:TELEcom:OPTical:SFP:VENDor:NAME?
:SENSe:DATA:TELEcom:OPTical:SFP:PART:NUMBer?
:SENSe:DATA:TELEcom:OPTical:SFP:SERial:NUMBer?
:SENSe:DATA:TELEcom:OPTical:SFP:REVisIon?
:SENSe:DATA:TELEcom:OPTical:SFP:CONNeCtor:TYPE?
:SENSe:DATA:TELEcom:OPTical:SFP:SPEed?
:SENSe:DATA:TELEcom:OPTical:SFP:TYPE?
:SENSe:DATA:TELEcom:OPTical:SFP:POWEr:CLASs?
:FETCh:DATA:TELEcom:OPTical:SFP:TEMPerature:ACTual?
:FETCh:DATA:TELEcom:OPTical:SFP:TEMPerature:MAXimum?
:SENSe:DATA:TELEcom:OPTical:SFP:MODE?
:SENSe:DATA:TELEcom:OPTical:SFP:WAVelength?

For Loopback Tool

:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:MODule:ID?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:VENDor:NAME?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:PART:NUMBer?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:SERial:NUMBer?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:REVisIon?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:CONNeCtor:TYPE?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:SPEed?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:TYPE?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:MODE?
:SENSe:DATA:TELEcom:OPTical:SLTool:SFP:WAVelength?

Clients - Path OAM

Path OAM

:SOURce:DATA:TELEcom:FETHernet:POAM:GSStatus

:SOURce:DATA:TELEcom:FETHernet:POAM:GSStatus?

OAM Responder

:SOURce:DATA:TELEcom:FETHernet:POAM:RESPonder:ENABLE

:SOURce:DATA:TELEcom:FETHernet:POAM:RESPonder:ENABLE?

Global Pass/Fail Verdict

:SOURce:DATA:TELEcom:FETHernet:POAM:VERDisct:ENABLE

:SOURce:DATA:TELEcom:FETHernet:POAM:VERDisct:ENABLE?

Path OAM on Client ID

:SOURce:DATA:TELEcom:FETHernet:POAM:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:POAM:CLlent:IDentifier?

Basic OAM

CC Function

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:CCFunction

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:CCFunction?

Period

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:PERiod

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:PERiod?

Bidirectional Delay Measurement

2DM Function

:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:ENABLE

:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:ENABLE?

TX Enable

:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:TX:ENABLE

:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:TX:ENABLE?

SCPI Command List - Setup

Clients - Path OAM

Period

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:PERiod

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:PERiod?

Continuous

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:CONTInuous:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:CONTInuous:ENABle?

Count

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:FRAME:COUNT

:SOURce:DATA:TELEcom:FETHernet:POAM:DELAy:TX:FRAME:COUNT?

Connectivity Verification

CV Function

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:ENABle?

Period

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:TX:PERiod

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:TX:PERiod?

Expected

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:MONitoring:ENABle

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:MONitoring:ENABle?

SAPI Generated

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:SAPI:GENeration

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:SAPI:GENeration?

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:SAPI:EXPected

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:SAPI:EXPected?

DAPI Generated

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:DAPI:GENeration

:SOURce:DATA:TELEcom:FETHernet:POAM:CVER:DAPI:GENeration?

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:DAPI:EXPected

:SENSe:DATA:TELEcom:FETHernet:POAM:CVER:DAPI:EXPected?

CS Type

CS Type Function

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:ENABle?

Period

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:TX:PERiod

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:TX:PERiod?

Type

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:GENerated?

Expected

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:MONitoring:ENABle

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPected

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPected?

Clients - Profile

Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALendar:CONFig?

Ethernet Frame

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?

Shapping

TX Rate

:SOURce:DATA:TELEcom:ETHernet:STReam:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:RATE?

Enable TX

:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STATus

:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STATus?

Clock

Clock Synchronization

Clock Mode

:INPut:TELEcom:BACKplane:CLOCK

:INPut:TELEcom:BACKplane:CLOCK?

Tributary Synchronization

Clock Mode

:INPut:TELEcom:TRIButary:CLOCK

:INPut:TELEcom:TRIButary:CLOCK?

Internal GNSS

Reference is set to **IPPS**, no SCPI command.

Ext Clock In

Interface

:OUTPut:TELEcom:LEVel

:OUTPut:TELEcom:LEVel?

:OUTPut:TELEcom:CLOCK:ALARm:STATus?

Termination Mode

:OUTPut:TELEcom:TERMination

:OUTPut:TELEcom:TERMination?

Line Coding

:OUTPut:TELEcom:CODE

:OUTPut:TELEcom:CODE?

Framing

:OUTPut:TELEcom:FRAMing

:OUTPut:TELEcom:FRAMing?

SCPI Command List - Setup

Clock

Frequency

:OUTPut:TELEcom:CLOCK:FREQuency?

Offset

:OUTPut:TELEcom:CLOCK:FREQuency:OFFSet?

Ext Clock Out

Interface

:INPut:TELEcom:LEVel

:INPut:TELEcom:LEVel?

LBO

:INPut:TELEcom:LBO

:INPut:TELEcom:LBO?

Line Coding

:INPut:TELEcom:CODE

:INPut:TELEcom:CODE?

Framing

:INPut:TELEcom:FRAMing

:INPut:TELEcom:FRAMing?

Ref Out

Source

:INPut:TELEcom:COUtput:SOURce

:INPut:TELEcom:COUtput:SOURce?

Frequency

:INPut:TELEcom:COUtput:FREQuency?

:INPut:TELEcom:COUtput:STATus?

Backplane

Backplane Clock

:INPut:TELEcom:BCLock:ENABle

:INPut:TELEcom:BCLock:ENABle?

:INPut:TELEcom:CLOCK:ALARm:STATus?

Device Under Test - iOptics

Transceiver selection

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SOURce:DATA:TELEcom:IOPTics:LOOPback:PORT?

Use with QSFP28 to SFP28 Adapter

:SOURce:DATA:TELEcom:IOPTics:ADAPter:QSFP:SFP:ENABle?

Rate

:SOURce:DATA:TELEcom:IOPTics:RATE

:SOURce:DATA:TELEcom:IOPTics:RATE?

Bidirectional

:SOURce:DATA:TELEcom:IOPTics:BDIREctional

:SOURce:DATA:TELEcom:IOPTics:BDIREctional?

Host/Media Loopback

:SOURce:DATA:TELEcom:IOPTics:LTYPE

:SOURce:DATA:TELEcom:IOPTics:LTYPE

Parameters

See *CFP4/OSFP/QSFP/SFP/SFP+/SFP28* on page 67.

Refer to *Modify Wavelength (SFP)* on page 419 for tunable transceivers.

Refer to *Modify Wavelength (DCO)* on page 420 for DCO transceivers.

Lasers OFF at Start-Up

:SENSe:DATA:TELEcom:LOFF

:SENSe:DATA:TELEcom:LOFF?

EtherBERT and Unframed BERT

Note: For EtherBERT Unframed parallel interface, see BERT and Unframed BERT (Transport) on page 54.

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK

:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABle

:SOURce:DATA:TELecom:LINK:ENABle

Link (for EoOTN)

Link

:FETCh:DATA:TELecom:EOTN:ALARm:LINK?

:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

Pattern

Coupled RX to TX

Framed

:SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELecom:COUPled?

Unframed

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:COUPled?

No Pattern Analysis (Live)

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus?

All Lanes

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL?

SCPI Command List - Setup

EtherBERT and Unframed BERT

TX Pattern

Framed

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

Unframed

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?

:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:TX?

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELEcom:PATtern:TYPE

:SENSe:DATA:TELEcom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX

:SENSe:DATA:TELEcom:UPRBs:PATtern:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX?
:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX?

Pattern Sync

:FETCh:DATA:TELEcom:PATtern:ALARm:SYNC
:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Bit Error**Pass/Fail Verdict and BER Threshold**

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE
:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?
:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt
:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?
:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Unframed

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:COUNt?
:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict:DISable

Lane TX/RX Pattern and Invert**TX Pattern****Invert**

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX
:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX?

RX Pattern**Invert**

:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX
:SENSe:DATA:TELEcom:UPRBs:PATtern:POLarity:RX?

Service Disruption

Disruption Monitoring

:SENSe:DATA:TELEcom:SDT

:SENSe:DATA:TELEcom:SDT?

No Traffic Time

:SENSe:DATA:TELEcom:SDT:NTTime

:SENSe:DATA:TELEcom:SDT:NTTime?

Pass/Fail Verdict

:SENSe:DATA:TELEcom:SDT:VERDict

:SENSe:DATA:TELEcom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELEcom:SDT:THReshold

:SENSe:DATA:TELEcom:SDT:THReshold?

Debounce Time

:SENSe:DATA:TELEcom:SDT:DT

:SENSe:DATA:TELEcom:SDT:DT?

Ethernet Frame

Frame Size

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE?

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?

Fixed - Frame Size

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?

EMIX, refer to *EMIX* on page 401.

Shapping

TX Rate

Ethernet

:SOURce:DATA:TELEcom:ETHernet:STReam:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:RATE?

Fibre Channel

:SOURce:DATA:TELEcom:FIBer:STReam:RATE

:SOURce:DATA:TELEcom:FIBer:STReam:RATE?

Enable TX

:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STatus

:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STatus?

Latency

Enable

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:ENABle?

Mode

:SOURce:DATA:TELEcom:ETHernet:STReam:LATency:MODE:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:LATency:MODE:TYPE?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STatus

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STatus?

Round-Trip Threshold Threshold

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue?

EtherSAM - Burst

Parameters

Number of Burst Sequence

*:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:NOBSequenc
e*

*:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:NOBSequenc
e?*

Refil Delay Ratio

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:RDERatio

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:RDERatio?

Burst/IR Frame Ratio

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:BIRFrame

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:BIRFrame?

Table

CBS Test Time

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:CBS:TIME?

EBS Test Time

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:EBS:TIME?

Total Burst Test Time

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TBURSt:TIME?

Total

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TOTal?

EtherSAM - Global

Dual Test Set

Dual Test Set

:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABLEd

:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABLEd?

NAT LAN/WAN and WAN IP

:FETCh:DATA:TELEcom:ETHernet:ESAM:NATDiscovery:STATus?

:FETCh:DATA:TELEcom:ETHernet:ESAM:NATDiscovery:LWIPaddress?

Discover Remote Button

Refer to *Discover Remote Button*.

Subtests

Service Configuration Test

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE?

Service Performance Test

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:SPRTest:ENABLEd

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:SPRTest:ENABLEd?

Subtest Duration

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:SPRTest:DURation

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:SPRTest:DURation?

Global Test Duration Estimation

:FETCh:DATA:TELEcom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?

Global Options

Per Direction Configuration

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus
:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus?

Latency Measurement Mode

:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:LMMode
:SOURce:DATA:TELEcom:ETHernet:ESAM:GLOBal:LMMode?

LOPPS-L and LOPPS-R

:FETCh:DATA:TELEcom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent?

Restore EtherSAM Defaults

:SOURce:DATA:TELEcom:ETHernet:ESAM:REStore:DEFault

EtherSAM - Ramp

Add Step

:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:ADD

Delete Step

:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:DELeTe

Defaults

:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:DEFault

Step Time

:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:TIME
:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:TIME?

Ramp Duration

:FETCh:DATA:TELEcom:ETHernet:ESAM:RAMP:DURation?

FC BERT

Pattern

Coupled RX to TX

:SENSe:DATA:TELEcom:COUPled

:SENSe:DATA:TELEcom:COUPled?

TX Pattern

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SOURce:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

RX Pattern

:SENSe:DATA:TELEcom:PATtern:TYPE

:SENSe:DATA:TELEcom:PATtern:TYPE?

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue

:SENSe:DATA:TELEcom:PATtern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELEcom:POLarity

:SENSe:DATA:TELEcom:POLarity?

Bit Error

Pass/Fail Verdict and BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Service Disruption

Disruption Monitoring

:SENSe:DATA:TELEcom:SDT

:SENSe:DATA:TELEcom:SDT?

No Traffic Time

:SENSe:DATA:TELEcom:SDT:NTTime

:SENSe:DATA:TELEcom:SDT:NTTime?

Pass/Fail Verdict

:SENSe:DATA:TELEcom:SDT:VERDict

:SENSe:DATA:TELEcom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELEcom:SDT:THReshold

:SENSe:DATA:TELEcom:SDT:THReshold?

Debounce Time

:SENSe:DATA:TELEcom:SDT:DT

:SENSe:DATA:TELEcom:SDT:DT?

FC Frame

Frame Size

:SOURce:DATA:TELEcom:FIBer:STReam:SIZE

:SOURce:DATA:TELEcom:FIBer:STReam:SIZE?

Latency Tag Insertion

Latency Tag

:SOURce:DATA:TELEcom:FIBer:STReam:LATency

:SOURce:DATA:TELEcom:FIBer:STReam:LATency?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:FIBer:STReam:LATency:VERDict

:SOURce:DATA:TELEcom:FIBer:STReam:LATency:VERDict?

Round-Trip Latency Threshold

:SENSe:DATA:TELEcom:FIBer:RTLatency:THReshold

:SENSe:DATA:TELEcom:FIBer:RTLatency:THReshold?

Shapping**TX Rate**

:SOURce:DATA:TELEcom:FIBer:STReam:RATE

:SOURce:DATA:TELEcom:FIBer:STReam:RATE?

Fibre Channel**World Wide Name (WWN)****Source**

:SOURce:DATA:TELEcom:FIBer:PORT:WSource

:SOURce:DATA:TELEcom:FIBer:PORT:WSource?

Destination

:SOURce:DATA:TELEcom:FIBer:PORT:WDEStination

:SOURce:DATA:TELEcom:FIBer:PORT:WDEStination?

Buffer to Buffer Flow Control**Enable**

:SOURce:DATA:TELEcom:FIBer:PORT:FCONtrol:ENABLE

:SOURce:DATA:TELEcom:FIBer:PORT:FCONtrol:ENABLE?

Available BB_Credit

:SOURce:DATA:TELEcom:FIBer:PORT:AVailable:BBCredit

:SOURce:DATA:TELEcom:FIBer:PORT:AVailable:BBCredit?

Login

Enable

:SOURce:DATA:TELEcom:FIBer:PORT:LOGIn:STATus

:SOURce:DATA:TELEcom:FIBer:PORT:LOGIn:STATus?

Login

:FETCh:DATA:TELEcom:FIBer:PORT:LOGIn

Advertised BB_Credit

:SOURce:DATA:TELEcom:FIBer:PORT:ADVertised:BBCredit

:SOURce:DATA:TELEcom:FIBer:PORT:ADVertised:BBCredit?

Discoverd Topology

:FETCh:DATA:TELEcom:FIBer:PORT:DTOPology?

Fabric Status

:FETCh:DATA:TELEcom:FIBer:PORT:FLOGIn:STATus?

Port Status

:FETCh:DATA:TELEcom:FIBer:PORT:PLOGIn:STATus?

FlexE Group

FlexE Status

:FETCh:DATA:TELeom:FETHernet:GROup:STATus?

Calendar Mismatch

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar?

FlexE Group Number

:SOURce:DATA:TELeom:FETHernet:GROup:NUMBer

:SOURce:DATA:TELeom:FETHernet:GROup:NUMBer?

Calendar

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar?

Calendar Granularity

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar:GRANularity

:SOURce:DATA:TELeom:FETHernet:GROup:CALendar:GRANularity?

Link

:FETCh:DATA:TELeom:ETHernet:LINK:LRATe:GLOBal:STATus?

Modify

Refer to *FlexE Calendar*.

FlexO/OTN

FlexO

FlexO Status

:FETCh:DATA:TELEcom:FOTN:GROup:STATus?

FlexO Group ID

:SOURce:DATA:TELEcom:FOTN:GROup:IDentifier

:SOURce:DATA:TELEcom:FOTN:GROup:IDentifier?

OTUCn

Edit ID

:SOURce:DATA:TELEcom:FOTN:CLient:MCID

Client ID, Type, and Trib Slot

:SOURce:DATA:TELEcom:FOTN:CLient:CONFig?

FTFL/PT

FTFL

Overwrite

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE:OVERwrite:ENABled?

Fault Indication

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:INDication
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:INDication
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:INDication?

Code

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:CODE
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:CODE
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:CODE?

Operator Identifier

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:IDENtifier
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:IDENtifier
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Operator Specific

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OPSPec
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:OPSPec
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:OPSPec?

PT / Global PT

Overwrite

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE:OVERwrite:ENABled
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE:OVERwrite:ENABled?
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE:OVERwrite:ENABled
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE:OVERwrite:ENABled?

Payload Type

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPE?

For OPU1e and OPU2e only

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:E:PTYPE?

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE?

Payload Type - Global Overwrite Status Icon (Multi-Channel OTN)

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:GOVERwrite?

Code

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PCODE
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PCODE?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE?

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PCODE
:SOURce:DATA:TELEcom:OTN:OPU[1..n]:E:PCODE?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:E:PCODE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:E:PCODE?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODE
:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODE?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODE
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODE?

OPU-PLM

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?

Frequency

Port

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABLE
:SOURce:DATA:TELecom:LINK:ENABLE

FlexE PHY Number

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMBER?

FlexO Instance ID

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

TX Frequency

Frequency

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency?

Offset

Mode selection

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:METHod

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:METHod?

Activation

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet?

Fixed value

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?

Sweep value

:FETCH:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet?

Sweep Range

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:MINimum

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:MINimum?

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:MAXimum

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

RX Frequency

Frequency

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency?

Offset

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?

Max Negative Offset

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:NEGative?

Max Positive Offset

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:POSitive?

GFP-F/GFP-T

CDF pFCS / CMF pFCS

:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:TYPE
:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:TYPE?

EXI

:SOURce:DATA:TELEcom:GFP:CONFig:EXI
:SOURce:DATA:TELEcom:GFP:CONFig:EXI?

CID

:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:CID
:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:CID?

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

FlexE Equipped/Unequipped Instances List (available on the Interface Block)

:SOURce:DATA:TELEcom:FETHernet:INSTances:STATus?

Port

:SOURce:DATA:TELEcom:PORT
:SOURce:DATA:TELEcom:PORT?

Link and Enable (multiple link interface)

:SOURce:DATA:TELEcom:LINK
:SOURce:DATA:TELEcom:LINK?

:SOURce:DATA:TELEcom:LINK:ENABLE
:SOURce:DATA:TELEcom:LINK:ENABLE

FlexE PHY Number

:SOURce:DATA:TELEcom:FETHernet:GROup:PNUMber
:SOURce:DATA:TELEcom:FETHernet:GROup:PNUMber?

SCPI Command List - Setup

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

FlexO Instance ID

:SOURCE:DATA:TELEcom:FOTN:INSTance:IDentifier
:SOURCE:DATA:TELEcom:FOTN:INSTance:IDentifier?

LINK

Note: *There is no SCPI command for the **All Links** check box, available with multilink interface, each link has to be configured individually.*

LINK

For Ethernet up to 25G or FlexE client (all rates): Live LINK status
:FETCH:DATA:TELEcom:ETHernet:LINK:LRATe:GLOBal:STATus?

For Ethernet parallel interfaces: Live LINK and alarm status
For Ethernet serial interfaces 25G and up: Live alarm status
:FETCH:DATA:TELEcom:ETHernet:ALARm:LINK?

For Ethernet 50G
:FETCH:DATA:TELEcom:ETHernet:FEC:ALARm:LINK?

For Fiber Channel
:FETCH:DATA:TELEcom:FIBer:LINK?

WIS Link (10G WAN)
:FETCH:DATA:TELEcom:ETHernet:WIS:ALARm:LINK?

RS-FEC
:SOURCE:DATA:TELEcom:ETHernet:RSFec
:SOURCE:DATA:TELEcom:ETHernet:RSFec?
- CPRI - 24.3G
:SOURCE:DATA:TELEcom:CPRI:FEC:ENABLE
:SOURCE:DATA:TELEcom:CPRI:FEC:ENABLE?

RS-FEC (RX Only)
:SOURCE:DATA:TELEcom:ETHernet:FEC:ENABLE
:SOURCE:DATA:TELEcom:ETHernet:FEC:ENABLE?

FEC Degraded SER

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:ENABle
:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:ENABle?

Thresholds - FEC Degraded SER Thresholds

Refer to *Thresholds (FEC Degraded SER)* on page 424.

Precoding

:SOURce:DATA:TELEcom:ETHernet:PRECoding
:SOURce:DATA:TELEcom:ETHernet:PRECoding?

Auto-Negotiation

:SOURce:DATA:TELEcom:ETHernet:PORT:NEGotiation
:SOURce:DATA:TELEcom:ETHernet:PORT:NEGotiation?

Flow Control

:FETCh:DATA:TELEcom:ETHernet:PORT:FCONtrol?
:SOURce:DATA:TELEcom:ETHernet:PORT:ANEgotiation:FCONtrol
:SOURce:DATA:TELEcom:ETHernet:PORT:ANEgotiation:FCONtrol?

Speed

:SOURce:DATA:TELEcom:ETHernet:PORT:BANDwidth
:SOURce:DATA:TELEcom:ETHernet:PORT:BANDwidth?
:FETCh:DATA:TELEcom:ETHernet:PORT:BANDwidth?

Cable Mode

:SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE
:SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE?
:SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE:STATus
:SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE:STATus?

Flow Control

:SOURce:DATA:TELEcom:ETHernet:PORT:FCONtrol
:SOURce:DATA:TELEcom:ETHernet:PORT:FCONtrol?

WIS

:SOURce:DATA:TELEcom:ETHernet:WIS:TRACe
:SOURce:DATA:TELEcom:ETHernet:WIS:TRACe?
:SOURce:DATA:TELEcom:ETHernet:WIS:PATH:LABel
:SOURce:DATA:TELEcom:ETHernet:WIS:PATH:LABel?

SCPI Command List - Setup

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

Duplex

:SOURce:DATA:TELEcom:ETHernet:PORT:DUPLex
:SOURce:DATA:TELEcom:ETHernet:PORT:DUPLex?
:FETCh:DATA:TELEcom:ETHernet:PORT:DUPLex?

:SOURce:DATA:TELEcom:ETHernet:PORT:ANEGotiation:DUPLex
:SOURce:DATA:TELEcom:ETHernet:PORT:ANEGotiation:DUPLex?

Local Clock

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:CLOCK
:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:CLOCK?
:FETCh:DATA:TELEcom:ETHernet:PORT:LOCAl:CLOCK?

PSP (Link Protocol)

:SOURce:DATA:TELEcom:FIBer:PSP
:SOURce:DATA:TELEcom:FIBer:PSP?

Link Degradе Signaling

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGNaling:ENABLE
:SOURce:DATA:TELEcom:FIBer:LINK:DSIGNaling:ENABLE?

Threshold, refer to *Thresholds (Link Degradе Signaling)* on page 425.

LLDP Neighbor

Refer to *LLDP Neighbor* on page 412.

LINK (CPRI)

LINK

:FETCh:DATA:TELEcom:CPRI:PORT:LINK:STATUs?

Sequence

:FETCh:DATA:TELEcom:CPRI:PORT:SState?
:FETCh:DATA:TELEcom:CPRI:PORT:FSYNc:STATUs?

Protocol

:SOURce:DATA:TELEcom:CPRI:PORT:PROTOcol
:SOURce:DATA:TELEcom:CPRI:PORT:PROTOcol?
:SENSe:DATA:TELEcom:CPRI:PORT:PROTOcol:VERSIon?

C&M Channel

:SOURce:DATA:TELEcom:CPRI:PORT:CMCHannel

:SOURce:DATA:TELEcom:CPRI:PORT:CMCHannel?

Subchannel

:SOURce:DATA:TELEcom:CPRI:PORT:SUBChannel

:SOURce:DATA:TELEcom:CPRI:PORT:SUBChannel?

Rate for HDLC

:SOURce:DATA:TELEcom:CPRI:PORT:HDLC:RATE

:SOURce:DATA:TELEcom:CPRI:PORT:HDLC:RATE?

Rate for Ethernet C&M Channel

:FETCh:DATA:TELEcom:CPRI:PORT:ETHernet:RATE?

:SENSe:DATA:TELEcom:CPRI:PORT:ETHernet:RATE?

:SENSe:DATA:TELEcom:CPRI:PORT:HDLC:RATE?

Scrambling

:SOURce:DATA:TELEcom:CPRI:UNFRamed:SCRamble:ENABle

:SOURce:DATA:TELEcom:CPRI:UNFRamed:SCRamble:ENABle?

LINK (OBSAI)

LINK

:FETCh:DATA:TELEcom:CPRI:OBSai:LINK:LIVE?

:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:TRANsmi:t:LIVE?

:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:RECeive:LIVE?

:SOURce:DATA:TELEcom:CPRI:OBSai:FTIDle

:SOURce:DATA:TELEcom:CPRI:OBSai:FTIDle?

:SOURce:DATA:TELEcom:CPRI:OBSai:SCRamble

:SOURce:DATA:TELEcom:CPRI:OBSai:SCRamble?

:SOURce:DATA:TELEcom:CPRI:OBSai:TXSeed

:SOURce:DATA:TELEcom:CPRI:OBSai:TXSeed?

:FETCh:DATA:TELEcom:CPRI:OBSai:RXSeed?

:SOURce:DATA:TELEcom:CPRI:OBSai:FCBGen

:SOURce:DATA:TELEcom:CPRI:OBSai:FCBGen?

SCPI Command List - Setup

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

Remote Fault Emulation

:SOURce:DATA:TELEcom:ETHernet:LRATe:RFE:ENABle
:SOURce:DATA:TELEcom:ETHernet:LRATe:RFE:ENABle?
|| :SOURce:DATA:TELEcom:ETHernet:HRATe:RFE:ENABle
|| :SOURce:DATA:TELEcom:ETHernet:HRATe:RFE:ENABle?

LLDP Neighbor

Note: *Refer to LLDP Neighbor on page 412.*

RP3 Address

:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:SOURce
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:SOURce?
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:TARGet
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:TARGet?
:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:PTARGet?
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:MISMatch
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDResS:MISMatch?

RP3 Message

:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:TYPE
:SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:TYPE?
:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:KMG?
:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:MMG?
:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:NMG?

FEC (FlexO BERT)

:SOURce:DATA:TELEcom:FOTN:FEC
:SOURce:DATA:TELEcom:FOTN:FEC?

Physical Interface

TX Power

:SENSe:DATA:TELEcom:OPTical:TX:POWer?

:SENSe:DATA:TELEcom:OPTical:RX:POWer?

Min RX Power

:SENSe:DATA:TELEcom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELEcom:OPTical:RX:POWer:MAXimum?

Wavelength

:SENSe:DATA:TELEcom:OPTical:LASer:WAVelength?

|| :SENSe:DATA:TELEcom:OPTical:WAVelength?

For tunable transceivers:

:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength?

Laser ON/OFF button

Refer to *Laser ON/OFF Button*

Power Range

:SENSe:DATA:TELEcom:OPTical:POWer:RANGe?

Laser OFF at Start-Up

:SENSe:DATA:TELEcom:LOFF

:SENSe:DATA:TELEcom:LOFF?

Modify Wavelength

For tunable SFP transceivers, refer to *Modify Wavelength (SFP)* on page 419.

Interface - DCO BERT

Note: Only some SCPI commands are supported.

Physical Interface

RX Power

:SENSe:DATA:TELecom:OPTical:RX:POWer?

Optical Metrics

Note: Only available for CD, CFO, DGD, and OSNR.

:FETCh:DATA:TELecom:DCO:OPTical:METRics:RX?

Labels

STS/AU Path (C2)

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted?

PLM-P/UNEQ-P / HP-PLM/HP-UNEQ

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?

VT/TU Path (V5)

```
:SOURce:DATA:TELEcom:SDHSonet:LOP:PATH:LABel
:SOURce:DATA:TELEcom:SDHSonet:LOP:PATH:LABel?
:SENSe:DATA:TELEcom:SDHSonet:LOP:PATH:LABel:EXPeCted
:SENSe:DATA:TELEcom:SDHSonet:LOP:PATH:LABel:EXPeCted?

:SOURce:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel
:SOURce:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel?
:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted
:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted?
```

PLM-V/UNEQ-V / LP-PLM/LP-UNEQ

```
:SENSe:DATA:TELEcom:SDHSonet:LOP:PUNeq
:SENSe:DATA:TELEcom:SDHSonet:LOP:PUNeq?
```

Link OAM

OAM Mode

```
:SOURce:DATA:TELEcom:LOAM:MODE
:SOURce:DATA:TELEcom:LOAM:MODE?
```

OAMPDU Destination MAC Address

```
:SOURce:DATA:TELEcom:LOAM:PDU:DESTination:MAC
:SOURce:DATA:TELEcom:LOAM:PDU:DESTination:MAC?
```

Default

```
:SOURce:DATA:TELEcom:LOAM:PDU:DESTination:MAC:ENABle
:SOURce:DATA:TELEcom:LOAM:PDU:DESTination:MAC:ENABle?
```

Pass/Fail Verdict

:SOURce:DATA:TELEcom:LOAM:VERDict:ENABLE
:SOURce:DATA:TELEcom:LOAM:VERDict:ENABLE?

Remote Alarms

:SOURce:DATA:TELEcom:LOAM:VERDict:ALARm:ENABLE
:SOURce:DATA:TELEcom:LOAM:VERDict:ALARm:ENABLE?

Remote Loopback

:SOURce:DATA:TELEcom:LOAM:VERDict:LBACK:ENABLE
:SOURce:DATA:TELEcom:LOAM:VERDict:LBACK:ENABLE?

OAM Discovery Status

Local

:FETCh:DATA:TELEcom:LOAM:DISCovey:LOCAl:STATUs?

Remote

:FETCh:DATA:TELEcom:LOAM:DISCovey:REMote:STATUs?

Loopback

Local - Enable/Disable

:SOURce:DATA:TELEcom:LOAM:LBACK:LOCAl

Remote - Enable/Disable

:SOURce:DATA:TELEcom:LOAM:LBACK:REMote

Status

:FETCh:DATA:TELEcom:LOAM:LBACK:STATUs?

MAC/IP/UDP

Link and Enable (multiple link interface)

:SOURce:DATA:TELEcom:LINK

:SOURce:DATA:TELEcom:LINK?

:SOURce:DATA:TELEcom:LINK:ENABle

:SOURce:DATA:TELEcom:LINK:ENABle

Couple With Interface

:SOURce:DATA:TELEcom:ETHernet:STReam:COUPled:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:COUPled:ENABle?

Discovery

Refer to *Remote Interface Discovery* on page 421.

Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALendar:CONFig?

MAC

Source MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce?

Destination MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination?

SCPI Command List - Setup

MAC/IP/UDP

EtherType

:SOURce:DATA:TELEcom:ETHernet:STReam:ETHER

:SOURce:DATA:TELEcom:ETHernet:STReam:ETHER?

OUI

:SOURce:DATA:TELEcom:ETHernet:STReam:MAC:OUI

:SOURce:DATA:TELEcom:ETHernet:STReam:MAC:OUI?

Source Flooding

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce:FLOoding

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce:FLOoding?

Destination Flooding

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding?

Flood Range

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:FLOoding:RANGe

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:FLOoding:RANGe?

VLAN

VLAN ID

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID?

Priority

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:PRiority

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:PRiority?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority?

Type

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:TYPE?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE
:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Drop Eligible

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

MPLS**Label**

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel?

COS

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:COSexp
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:COSexp?

TTL

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:TTL
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:TTL?

IP (IPv4)**Automatic IP (DHCP)**

:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATUS
:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATUS?

Source IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDResS:SOURce:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:ADDResS:SOURce:IP?

Destination IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDResS:DESTination:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:ADDResS:DESTination:IP?
:SOURce:DATA:TELEcom:ETHernet:STReam:QPING
:SOURce:DATA:TELEcom:ETHernet:STReam:QPING?

SCPI Command List - Setup

MAC/IP/UDP

Subnet Mask

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:MASK:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:MASK:IP?

Source IP Multiplier

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IP:MULTiplicat
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IP:MULTiplicat?
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IP:RANGe
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IP:RANGe?

Resolve MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve?
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve:STATus?

Default Gateway

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway?
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDress
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDress?

TTL

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TTL
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TTL?

IP TOS/DS

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs?

IPv6

IPv6 Destination IP Address

:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVersion?

Resolve MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve?
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve:STATus?

Source IP Multiplier

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat?
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IPVersion:RANGE
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:IPVersion:RANGE?

HOP Limit

:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LIMit
:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LIMit?

Flow Control

:SENSe:DATA:TELEcom:ETHernet:STReam:FLABel:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FLABel:IPVersion?

TOS/DS (Traffic Class)

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs?

UDP

Source Port

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT?

Destination Port

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT?

TCP

Source Port

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT:TCP
:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT:TCP?

Destination Port

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP
:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP?

SCPI Command List - Setup

Modify Structure - 1588 PTP

Payload

User Defined Header

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABle?
:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader
:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader?

Pattern

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad
:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad?

Modify Structure - 1588 PTP

Interface

:SOURce:DATA:TELEcom:ITYPE
:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - Cable Test

Interface

:SOURce:DATA:TELEcom:ITYPE
:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - Carrier Ethernet OAM

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - CPRI/OBSAI BERT

Note: For *Dual Port* topology, use the following command to select the port for subsequent commands/queries.

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Framing

:SOURce:DATA:TELEcom:CPRI:FRAMing:TYPE

:SOURce:DATA:TELEcom:CPRI:FRAMing:TYPE?

Vendor

:SOURce:DATA:TELEcom:CPRI:OBSai:VENDor:TYPE

:SOURce:DATA:TELEcom:CPRI:OBSai:VENDor:TYPE?

Emulation Mode

:SOURce:DATA:TELEcom:CPRI:EMULation:MODE

:SOURce:DATA:TELEcom:CPRI:EMULation:MODE?

Modify Structure - DCO BERT

Note: Only some SCPI commands are supported.

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - DSn/PDH BERT

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

:SENSe:DATA:TELEcom:ITYPE

:SENSe:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

DSn/PDH Multiplexing

:SOURce:DATA:TELEcom:DSNPdh:TYPE

:SOURce:DATA:TELEcom:DSNPdh:TYPE?

:FETCh:DATA:TELEcom:DSNPdh:TYPE?

Client

:FETCh:DATA:TELEcom:DSNPdh:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - eCPRI BERT

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.

`:SOURce:DATA:TELEcom:PORT`

`:SOURce:DATA:TELEcom:PORT?`

Interface

`:SOURce:DATA:TELEcom:ITYPE`

`:SOURce:DATA:TELEcom:ITYPE?`

PHY Type

`:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE`

`:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?`

Connector

`:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver`

`:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?`

Framing

`:SOURce:DATA:TELEcom:CPRI:FRAMing:TYPE`

`:SOURce:DATA:TELEcom:CPRI:FRAMing:TYPE?`

Modify Structure - EtherBERT

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.

`:SOURce:DATA:TELEcom:PORT`

`:SOURce:DATA:TELEcom:PORT?`

Interface

`:SOURce:DATA:TELEcom:ITYPE`

`:SOURce:DATA:TELEcom:ITYPE?`

Host Interface

`:SOURce:DATA:TELEcom:ETHernet:HINTERface`

`:SOURce:DATA:TELEcom:ETHernet:HINTERface?`

SCPI Command List - Setup

Modify Structure - EtherSAM (Y.1564)

PHY Type

Per port:

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Host/Media Loopback

:SOURce:DATA:TELEcom:OPTical:PORT:LTYPe

:SOURce:DATA:TELEcom:OPTical:PORT:LTYPe?

Framing

:SOURce:DATA:TELEcom:ETHernet:BERT:FRAMing

:SOURce:DATA:TELEcom:ETHernet:BERT:FRAMing?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - EtherSAM (Y.1564)

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

Interface

:SOURce:DATA:TELEcom:ITYPe

:SOURce:DATA:TELEcom:ITYPe?

PHY Type

Per port:

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - FC BERT

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - FlexE BERT

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

For all selected ports (FlexE):

:SOURce:DATA:TELEcom:FETHernet:GROup:PTYPE

:SOURce:DATA:TELEcom:FETHernet:GROup:PTYPE?

Group Size

:SOURce:DATA:TELEcom:FETHernet:GROup:SIZE

:SOURce:DATA:TELEcom:FETHernet:GROup:SIZE?

Connector(s)

:SOURce:DATA:TELEcom:FETHernet:PORT:SElection

:SOURce:DATA:TELEcom:FETHernet:PORT:SElection?

Modify Structure - FlexO BERT

Interface/Rate

:SOURce:DATA:TELEcom:FOTN:GROup:RATE:SElection

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

OTN (FlexO)

:SOURce:DATA:TELEcom:FOTN:GROup:RATE:SElection

:SOURce:DATA:TELEcom:FOTN:GROup:RATE:SElection

Client

:SOURce:DATA:TELEcom:OTN:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - ISDN PRI

Note: *This test application is not supported by SCPI commands.*

Modify Structure - Multi-Channel OTN

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Framing

:SOURce:DATA:TELEcom:OTN:FRAMing?

Client

:SOURce:DATA:TELEcom:OTN:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - NI/CSU Emulation

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - OTN BERT

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Framing

:SOURce:DATA:TELEcom:OTN:FRAMing

:SOURce:DATA:TELEcom:OTN:FRAMing?

OTN Multiplexing

:SOURce:DATA:TELEcom:ODU:TYPE

:SOURce:DATA:TELEcom:ODU:TYPE?

Client

:SOURce:DATA:TELEcom:OTN:CLient

:SOURce:DATA:TELEcom:OTN:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - OTN-SONET/SDH BERT

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

OTN Multiplexing

:SOURce:DATA:TELEcom:ODU:TYPE

:SOURce:DATA:TELEcom:ODU:TYPE?

Embedded SONET/SDH

:SOURce:DATA:TELEcom:OTN:MULTiplex:ITYPE

:SOURce:DATA:TELEcom:OTN:MULTiplex:ITYPE?

SONET/SDH Multiplexing

:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

Client

:SOURce:DATA:TELEcom:OTN:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - RFC 2544

Note: For *Dual Port* topology, use the following command to select the port for subsequent commands/queries.

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

Per port:

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - RFC 6349

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - Smart Loopback

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - SONET/SDH BERT

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

:SENSe:DATA:TELEcom:ITYPE

:SENSe:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Framing

:FETCh:DATA:TELEcom:SDHSonet:FRAMing?

SCPI Command List - Setup

Modify Structure - SONET/SDH-DSn/PDH BERT

SONET/SDH Multiplexing

:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE
:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?
:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE
:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

Client

:FETCh:DATA:TELEcom:SDHSonet:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology
:SOURce:DATA:TELEcom:TOPology?

Modify Structure - SONET/SDH-DSn/PDH BERT

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE
:SOURce:DATA:TELEcom:ITYPE?

:SENSe:DATA:TELEcom:ITYPE
:SENSe:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

SONET/SDH Multiplexing

:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE
:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?
:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE
:SENSe:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

Embedded DSn/PDH

:SOURce:DATA:TELEcom:DSNPdh:TYPE
:SOURce:DATA:TELEcom:DSNPdh:TYPE?
:FETCh:DATA:TELEcom:DSNPdh:TYPE?

Client

:FETCh:DATA:TELEcom:SDHSonet:CLient?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Modify Structure - SyncE

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - TCP Throughput

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - Through Mode

Interface

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

Per port:

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Primary Port and Secondary Port

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

and

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Modify Structure - Traffic Gen & Mon

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

Interface/Rate

:SOURce:DATA:TELEcom:ITYPE

:SOURce:DATA:TELEcom:ITYPE?

PHY Type

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE

:SOURce:DATA:TELEcom:ETHernet:PHY:TYPE?

Connector

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Topology

:SOURce:DATA:TELEcom:TOPology

:SOURce:DATA:TELEcom:TOPology?

Network

MAC

MAC Address

:SOURce:DATA:TELEcom:ETHernet:NETWork:MAC:ADDReSS

:SOURce:DATA:TELEcom:ETHernet:NETWork:MAC:ADDReSS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:ADDReSS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:ADDReSS?

Factory Default

:SOURce:DATA:TELEcom:ETHernet:NETWork:FACTory:DEFault

:SOURce:DATA:TELEcom:ETHernet:NETWork:FACTory:DEFault?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:FACTory:DEFault

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:FACTory:DEFault?

Frame Format

:SOURce:DATA:TELEcom:ETHernet:NETWork:DATALink:TYPE

:SOURce:DATA:TELEcom:ETHernet:NETWork:DATALink:TYPE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATALink:TYPE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATALink:TYPE?

IP

IP Version

:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion?

IP Address

:SOURce:DATA:TELEcom:ETHernet:PORT:ADDReSS:IP

:SOURce:DATA:TELEcom:ETHernet:PORT:ADDReSS:IP?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDReSS:IP

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDReSS:IP?

Link-Local IPv6 Address

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCAL:IPVersion:ADDRESS

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCAL:IPVersion:ADDRESS?

:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCAL:IPVersion:ADDRESS:STATUS?

:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBAL:IPVersion:ADDRESS:STATUS?

Global IPv6 Address

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBAL:IPVersion:ADDRESS

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBAL:IPVersion:ADDRESS?

Automatic IP (DHCP)

:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATUS

:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATUS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DHCP:STATUS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DHCP:STATUS?

Subnet Mask

:SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK

:SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK?

Default Gateway

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFAULT:GATeway:STATUS

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFAULT:GATeway:STATUS?

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFAULT:GATeway:ADDRESS

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFAULT:GATeway:ADDRESS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFAULT:GATeway:STATUS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFAULT:GATeway:STATUS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFAULT:GATeway:ADDRESS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFAULT:GATeway:ADDRESS?

:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRESS:STATUS?

VLAN

VLAN Tag

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN?

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACKed

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACKed?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed?

VLAN ID

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID?

Type

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:TYPE

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:TYPE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:TYPE?

Priority

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority?

Drop Eligible

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit?

ODU Channels - Global

Pattern

No Pattern Analysis (Live)

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?

TX Pattern

:SOURce:DATA:TELEcom:PATtern:TYPE

:SOURce:DATA:TELEcom:PATtern:TYPE?

Invert

:SOURce:DATA:TELEcom:POLarity

:SOURce:DATA:TELEcom:POLarity?

Bit Error

Pass/Fail Verdict and BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

:SOURce:DATA:TELEcom:PATtern:VERDict:DISable

Service Disruption

Disruption Monitoring

:SENSe:DATA:TELEcom:SDT

:SENSe:DATA:TELEcom:SDT?

Defect

:SENSe:DATA:TELEcom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELEcom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELEcom:SDT:OTN:DSElection

:SENSe:DATA:TELEcom:SDT:OTN:DSElection?

SCPI Command List - Setup

Profile (DOC BERT)

No Defect time

:SENSe:DATA:TELeom:SDT:NTTime

:SENSe:DATA:TELeom:SDT:NTTime?

Pass/Fail Verdict

:SENSe:DATA:TELeom:SDT:VERDict

:SENSe:DATA:TELeom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELeom:SDT:THReshold

:SENSe:DATA:TELeom:SDT:THReshold?

Profile (DOC BERT)

Note: *Not supported yet.*

RFC 2544 - Global

Dual Test Set

Dual Test Set

:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABLEd

:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABLEd?

Discover Remote Button

Refer to *Discover Remote Button*.

Global Options

Flow Direction

:SOURce:DATA:TELEcom:ETHernet:RFC:FDIRection

:SOURce:DATA:TELEcom:ETHernet:RFC:FDIRection?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:VERDict:ENABLE

:SOURce:DATA:TELEcom:VERDict:ENABLE?

Subtests

Throughput

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:ENABLE

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:ENABLE?

:FETCh:DATA:TELEcom:ETHernet:RFC:THROUGHput:MINtime?

Back-to-Back

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABLE

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABLE?

:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:MINtime?

Frame Loss

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:ENABLE

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:ENABLE?

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSS:MINtime?

SCPI Command List - Setup

RFC 2544 - Global

Latency

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ENABLE
:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ENABLE?
:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:MINtime?

Total

:FETCh:DATA:TELEcom:ETHernet:RFC:TOTal:MINtime?

Frame Distribution

Frame Distribution

:SOURce:DATA:TELEcom:ETHernet:RFC:FDIStrib
:SOURce:DATA:TELEcom:ETHernet:RFC:FDIStrib?

Quantity

:SOURce:DATA:TELEcom:ETHernet:RFC:QUANtity
:SOURce:DATA:TELEcom:ETHernet:RFC:QUANtity?

Frame Size

:SOURce:DATA:TELEcom:ETHernet:RFC:FSIZE
:SOURce:DATA:TELEcom:ETHernet:RFC:FSIZE?

Restore RFC 2544 Defaults

:SOURce:DATA:TELEcom:ETHernet:RFC:RESTore

RFC 2544 - Subtests

Throughput

Max. Rate

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:MAXRate
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:MAXRate?

Trial Duration

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:TTime
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:TTime?

Trials

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:TAVerage
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:TAVerage?

Accuracy

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:ACCuracy
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:ACCuracy?

Acceptable Errors

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:AERrors
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:AERrors?

Validations

:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:VALidations
:SOURce:DATA:TELEcom:ETHernet:RFC:THROUGHput:VALidations?

Back-to_Back

Burst Time

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:MTFRames
:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:MTFRames?

Trials

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAVerage
:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAVerage?

SCPI Command List - Setup

RFC 2544 - Subtests

Accuracy

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ACCuracy
:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ACCuracy?

Acceptable Errors

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:AERRors
:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:AERRors?

Bursts

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:NBURst
:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:NBURst?

Frame Loss

Max. Rate

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:MAXRate
:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:MAXRate?

Trial Duration

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TTime
:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TTime?

Trials

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TAVerage
:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TAVerage?

Granularity

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TGRanularity
:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:TGRanularity?

Latency

Margin

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:MARGin

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:MARGin?

Trial Duration

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TTime

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TTime?

Trials

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TAVerage

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TAVerage?

Measurement Mode

:SOURce:DATA:TELEcom:ETHernet:RFC:GLOBal:LMMode

:SOURce:DATA:TELEcom:ETHernet:RFC:GLOBal:LMMode?

Copy From Throughput

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:COPYtest

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:COPYtest?

RFC 6349

Connection

Operation Mode

:SOURce:DATA:TELEcom:ETHernet:RFC:OPERation:MODE
:SOURce:DATA:TELEcom:ETHernet:RFC:OPERation:MODE?

Version

:SOURce:DATA:TELEcom:ETHernet:RFC:IPERf:VERSion
:SOURce:DATA:TELEcom:ETHernet:RFC:IPERf:VERSion?

Direction

:SOURce:DATA:TELEcom:ETHernet:RFC:DIRection
:SOURce:DATA:TELEcom:ETHernet:RFC:DIRection?

Remote IP Address

:SOURce:DATA:TELEcom:ETHernet:RFC:REMote:ADDRes:IP
:SOURce:DATA:TELEcom:ETHernet:RFC:REMote:ADDRes:IP?

TCP Port

:SOURce:DATA:TELEcom:ETHernet:RFC:REMote:PORT
:SOURce:DATA:TELEcom:ETHernet:RFC:REMote:PORT?

Remote Status

:FETCh:DATA:TELEcom:ETHernet:RFC:EWORx:RStAtE?

Remote Name ID

:FETCh:DATA:TELEcom:ETHernet:RFC:EWORx:RID?

Remote WAN IP Address

:FETCh:DATA:TELEcom:ETHernet:RFC:NATDiscovery:LWIPaddress?

NAT Discovery Status

:FETCh:DATA:TELEcom:ETHernet:RFC:NATDiscovery:StAtus?

Listening TCP Port

:SOURce:DATA:TELEcom:ETHernet:RFC:LIStening:PORT
:SOURce:DATA:TELEcom:ETHernet:RFC:LIStening:PORT?

Max Nb of Connection Allowed

:SOURce:DATA:TELEcom:ETHernet:RFC:MAXConnections

:SOURce:DATA:TELEcom:ETHernet:RFC:MAXConnections?

Parameters

Multiple Connections

:SOURce:DATA:TELEcom:ETHernet:RFC:MULTiple:CONNECTIONs

:SOURce:DATA:TELEcom:ETHernet:RFC:MULTiple:CONNECTIONs?

Window Size Target per Connection

:SOURce:DATA:TELEcom:ETHernet:RFC:WSIZetarget

:SOURce:DATA:TELEcom:ETHernet:RFC:WSIZetarget?

CIR

:SOURce:DATA:TELEcom:ETHernet:RFC:CIR

:SOURce:DATA:TELEcom:ETHernet:RFC:CIR?

Number of Connections

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNECTION:MODE:

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNECTION:MODE?

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNECTION:MANual

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNECTION:MANual?

TOS/DS

:SOURce:DATA:TELEcom:ETHernet:RFC:TOSDs

:SOURce:DATA:TELEcom:ETHernet:RFC:TOSDs?

Window Boost

:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor

:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor?

Enable

:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor:ENABLE

:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor:ENABLE?

MTU

Max MTU

:SOURce:DATA:TELEcom:ETHernet:RFC:MAX:MTU

:SOURce:DATA:TELEcom:ETHernet:RFC:MAX:MTU?

Path MTU Discovery

:SOURce:DATA:TELEcom:ETHernet:RFC:PATH:MTU:DIScovery

:SOURce:DATA:TELEcom:ETHernet:RFC:PATH:MTU:DIScovery?

Window Sweep

Window Sweep

:SOURce:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep

:SOURce:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep?

Duration (per step)

:SOURce:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep:DURation

:SOURce:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep:DURation?

TCP Throughput

Duration

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:DURation

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:DURation?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:VERDict

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:VERDict?

Threshold (% of ideal)

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:THReshold

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:THReshold?

Advanced

Recommended Window Boost

Buffer Delay Weight

:SOURce:DATA:TELeom:ETHernet:RFC:ADVanced:BUFFerdelay

:SOURce:DATA:TELeom:ETHernet:RFC:ADVanced:BUFFerdelay?

TCP Throughput Weight

:SOURce:DATA:TELeom:ETHernet:RFC:ADVanced:TCPThr

:SOURce:DATA:TELeom:ETHernet:RFC:ADVanced:TCPThr?

Restore RFC 6349 Defaults

:SOURce:DATA:TELeom:ETHernet:RFC:REStore:DEFAult

S-OAM and MPLS-TP OAM

OAM Mode

:SOURce:DATA:TELEcom:SOAM:MODE

:SOURce:DATA:TELEcom:SOAM:MODE?

S-OAM Responder / MPLS-TP OAM Responder

:SOURce:DATA:TELEcom:SOAM:RESPonder:ENABLE

:SOURce:DATA:TELEcom:SOAM:RESPonder:ENABLE?

Pass/Fail Verdict

:SOURce:DATA:TELEcom:VERDict:ENABLE

:SOURce:DATA:TELEcom:VERDict:ENABLE?

Local Parameters

MEG ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:ID?

MEG Level

:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:LEVel

:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:LEVel?

MEP ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MEP:ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MEP:ID?

Domain ID

:SOURce:DATA:TELEcom:SOAM:LOCal:DOMain:ID

:SOURce:DATA:TELEcom:SOAM:LOCal:DOMain:ID?

MA Name

:SOURce:DATA:TELEcom:SOAM:LOCal:MA:NAME

:SOURce:DATA:TELEcom:SOAM:LOCal:MA:NAME?

MD Level

:SOURce:DATA:TELEcom:SOAM:LOCal:MD:LEVel

:SOURce:DATA:TELEcom:SOAM:LOCal:MD:LEVel?

Peer MEP Parameters**MAC Address**

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:MAC:ADDRes

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:MAC:ADDRes?

MEP ID

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:ID

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:ID?

OAM Quick Ping

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:QUICK:PING

:SENSe:DATA:TELEcom:SOAM:PEER:MEP:QUICK:PING?

Next HOP Router (G.8113.1)**MAC Address**

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:MAC:ADDRes

:SOURce:DATA:TELEcom:SOAM:PEER:MEP:MAC:ADDRes?

Resolve MAC

:SOURce:DATA:TELEcom:SOAM:RESolve:MAC:ENABle

:SOURce:DATA:TELEcom:SOAM:RESolve:MAC:ENABle?

IP Address

:SOURce:DATA:TELEcom:SOAM:IP

:SOURce:DATA:TELEcom:SOAM:IP?

:SOURce:DATA:TELEcom:SOAM:IPVersion

:SOURce:DATA:TELEcom:SOAM:IPVersion?

Continuity Check

CC Function

:SOURce:DATA:TELEcom:SOAM:CCHeck:FUNCTion:ENABLe

:SOURce:DATA:TELEcom:SOAM:CCHeck:FUNCTion:ENABLe?

Address Type

:SOURce:DATA:TELEcom:SOAM:CCHeck:ADDReSS:TYPE

:SOURce:DATA:TELEcom:SOAM:CCHeck:ADDReSS:TYPE?

Priority

:SOURce:DATA:TELEcom:SOAM:CCHeck:PRIOritY

:SOURce:DATA:TELEcom:SOAM:CCHeck:PRIOritY?

Drop Eligible

:SOURce:DATA:TELEcom:SOAM:CCHeck:DROp:ELIGible

:SOURce:DATA:TELEcom:SOAM:CCHeck:DROp:ELIGible?

Period

:SOURce:DATA:TELEcom:SOAM:CCHeck:PERiod

:SOURce:DATA:TELEcom:SOAM:CCHeck:PERiod?

Test Function

Function

:SOURce:DATA:TELEcom:SOAM:TEST:FUNCTion

:SOURce:DATA:TELEcom:SOAM:TEST:FUNCTion?

Address Type

:SOURce:DATA:TELEcom:SOAM:FUNCTion:ADDReSS:TYPE

:SOURce:DATA:TELEcom:SOAM:FUNCTion:ADDReSS:TYPE?

Priority

:SOURce:DATA:TELEcom:SOAM:FUNCTion:PRIOritY

:SOURce:DATA:TELEcom:SOAM:FUNCTion:PRIOritY?

Drop Eligible

:SOURce:DATA:TELEcom:SOAM:FUNCTion:DROp:ELIGible

:SOURce:DATA:TELEcom:SOAM:FUNCTion:DROp:ELIGible?

TX Rate

:SOURce:DATA:TELEcom:SOAM:FUNction:TX:RATE
:SOURce:DATA:TELEcom:SOAM:FUNction:TX:RATE?

Frame Size

:SOURce:DATA:TELEcom:SOAM:FUNction:FRAME:SIZE
:SOURce:DATA:TELEcom:SOAM:FUNction:FRAME:SIZE?

TX Enable

:SOURce:DATA:TELEcom:SOAM:FUNction:TX:ENABLE
:SOURce:DATA:TELEcom:SOAM:FUNction:TX:ENABLE?

Continuous

:SOURce:DATA:TELEcom:SOAM:FUNction:CONTInuous:ENABLE
:SOURce:DATA:TELEcom:SOAM:FUNction:CONTInuous:ENABLE?

Requesting MEP ID TLV

:SOURce:DATA:TELEcom:SOAM:FUNction:RMEPid:ENABLE
:SOURce:DATA:TELEcom:SOAM:FUNction:RMEPid:ENABLE?

Frame Count

:SOURce:DATA:TELEcom:SOAM:FUNction:FRAME:COUNt
:SOURce:DATA:TELEcom:SOAM:FUNction:FRAME:COUNt?

Period

:SOURce:DATA:TELEcom:SOAM:FUNction:PERiod?

TLV Type

:SOURce:DATA:TELEcom:SOAM:FUNction:TLV:TYPE
:SOURce:DATA:TELEcom:SOAM:FUNction:TLV:TYPE?

Payload

:SOURce:DATA:TELEcom:SOAM:FUNction:PAYLoad
:SOURce:DATA:TELEcom:SOAM:FUNction:PAYLoad?

Test Pattern

:SOURce:DATA:TELEcom:SOAM:FUNction:TEST:PATtern
:SOURce:DATA:TELEcom:SOAM:FUNction:TEST:PATtern?

SCPI Command List - Setup

S-OAM and MPLS-TP OAM

Test ID

:SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:ID

:SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:ID?

MPLS-TP Label Stack (G.8113.1)

MPLS-TP Mode

:SOURce:DATA:TELecom:SOAM:MPLStp:MODE

:SOURce:DATA:TELecom:SOAM:MPLStp:MODE?

Label 1 / Label 2 / GAL

:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle

:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle?

Label

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel?

TC

:SOURce:DATA:TELecom:SOAM:MPLStp:TC

:SOURce:DATA:TELecom:SOAM:MPLStp:TC?

TTL

:SOURce:DATA:TELecom:SOAM:MPLStp:TTL

:SOURce:DATA:TELecom:SOAM:MPLStp:TTL?

Restore Carrier Ethernet OAM Defaults

:SOURce:DATA:TELecom:REStore:DEFault

Services - Global

Service Name

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME?

Addressing - Batch - Addressing Batch Config

Source IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

Couple with Interface / Automatic IP (CHCP) / Set to

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE?

IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP?

Subnet Mask

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

Default Gateway

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

Destination MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

Resolve / Set to

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

SCPI Command List - Setup

Services - Global

MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRes
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRes?

IP Address

Destination IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP?

(UN)Select All / Invert

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPI

Apply To

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPI:STReam
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPI:STReam?
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPI:APPLy
:FETCh:DATA:TELEcom:ETHernet:STReam:BATCh:COPI:SYNC:PROGress?

Copy Service

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:COPIstream

Services - Profile

Service

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle`
`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle?`

Profile

Profile button

Refer to *Profile (Services)*

Frame Size

`:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE`
`:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE?`

`:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE`
`:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?`

EMIX, refer to *EMIX* on page 401.

Test Parameters

Traffic Policing

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolici`
`ng:ENABle`

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolici`
`ng:ENABle?`

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolici`
`ng:VALue`

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolici`
`ng:VALue?`

Burst Max Rate

`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate`
`:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate?`

SLA Parameters

Information Rate

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Performance Criteria

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALUE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALUE?

Burst Size

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE:ENABLE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE?

Signal (Transport)

Physical Interface

Power

:SENSe:DATA:TELEcom:ELECtrical:RX:POWer?

:SENSe:DATA:TELEcom:ELECtrical:RX:POWer:MINimum?

:SENSe:DATA:TELEcom:ELECtrical:RX:POWer:MAXimum?

Amplitude

:SENSe:DATA:TELEcom:ELECtrical:RX:AMPLitude?

:SENSe:DATA:TELEcom:ELECtrical:RX:AMPLitude:MINimum?

:SENSe:DATA:TELEcom:ELECtrical:RX:AMPLitude:MAXimum?

LBO

:SOURce:DATA:TELEcom:LBO

:SOURce:DATA:TELEcom:LBO?

Line Coding

:SOURce:DATA:TELEcom:CODE

:SOURce:DATA:TELEcom:CODE?

:SENSe:DATA:TELEcom:CODE

:SENSe:DATA:TELEcom:CODE?

RX Termination

:SENSe:DATA:TELEcom:TERMination

:SENSe:DATA:TELEcom:TERMination?

TX Power

:SENSe:DATA:TELEcom:OPTical:TX:POWer?

:SENSe:DATA:TELEcom:OPTical:RX:POWer?

Min RX Power

:SENSe:DATA:TELEcom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELEcom:OPTical:RX:POWer:MAXimum?

SCPI Command List - Setup

Signal (Transport)

Wavelength

`:SENSe:DATA:TELEcom:OPTical:LASer:WAVelength?`

`|| :SENSe:DATA:TELEcom:OPTical:WAVelength?`

For tunable transceivers:

`:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength?`

Power Range

`:SENSe:DATA:TELEcom:OPTical:POWer:RANge?`

Laser ON/OFF button

Refer to *Laser ON/OFF Button*

Laser OFF at Start-Up

`:SENSe:DATA:TELEcom:LOFF`

`:SENSe:DATA:TELEcom:LOFF?`

TX Frequency

Frequency

`:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency?`

`:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency?`

Offset

`:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet`

`:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet?`

`:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue`

`:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue?`

`:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet`

`:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet?`

`:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue`

`:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?`

RX Frequency

Frequency

:SENSe:DATA:TELEcom:ELECtrical:PORT:FREQuency?

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency?

Max Offset

:SENSe:DATA:TELEcom:ELECtrical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELEcom:ELECtrical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:POSitive?

Offset

:SENSe:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

:SENSe:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?

Signal - Signal Configuration (DSn/PDH)

Background

:SOURce:DATA:TELEcom:DSNPdh:BACKground

:SOURce:DATA:TELEcom:DSNPdh:BACKground?

DS0 / E0 check box

:SOURce:DATA:TELEcom:DS[1..n]:ENABled

:SOURce:DATA:TELEcom:DS[1..n]:ENABled?

:SENSe:DATA:TELEcom:DS[1..n]:ENABled

:SENSe:DATA:TELEcom:DS[1..n]:ENABled?

:SOURce:DATA:TELEcom:PDH:E[1..n]:ENABled?

:SOURce:DATA:TELEcom:PDH:E[1..n]:ENABled?

:SENSe:DATA:TELEcom:PDH:E[1..n]:ENABled?

:SENSe:DATA:TELEcom:PDH:E[1..n]:ENABled?

TX Signaling

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:ENABle?

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:ENABle?

SCPI Command List - Setup

Signal (Transport)

Channel

:SOURce:DATA:TELEcom:DSNPdh:POSition
:SOURce:DATA:TELEcom:DSNPdh:POSition?
:SENSe:DATA:TELEcom:DSNPdh:POSition
:SENSe:DATA:TELEcom:DSNPdh:POSition?

Framing

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing
:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?
:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing
:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?
:SOURce:DATA:TELEcom:PDH:E[1..n]:FRAMing
:SOURce:DATA:TELEcom:PDH:E[1..n]:FRAMing?
:SENSe:DATA:TELEcom:PDH:E[1..n]:FRAMing
:SENSe:DATA:TELEcom:PDH:E[1..n]:FRAMing?

DS1 - Loopback

Mode

:SENSe:DATA:TELEcom:DS[1..n]:MODE
:SENSe:DATA:TELEcom:DS[1..n]:MODE?

Type

:SENSe:DATA:TELEcom:DS[1..n]:AUTO:TYPE
:SENSe:DATA:TELEcom:DS[1..n]:AUTO:TYPE?
:SENSe:DATA:TELEcom:DS[1..n]:MANual:TYPE
:SENSe:DATA:TELEcom:DS[1..n]:MANual:TYPE?

Activate

:SENSe:DATA:TELEcom:DS[1..n]:MANual:ACTivate
:SENSe:DATA:TELEcom:DS[1..n]:MANual:ACTivate?

Force Release

:SENSe:DATA:TELEcom:DS[1..n]:AUTO:FORCe:RELease

Loop Code

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE?

:SENSe:DATA:TELEcom:DS[1..n]:LOOP:CODE

:SENSe:DATA:TELEcom:DS[1..n]:LOOP:CODE?

Loop UP

:FETCh:DATA:TELEcom:DS[1..n]:LOOP:UP?

Loop Down

:FETCh:DATA:TELEcom:DS[1..n]:LOOP:DOWN?

Modify Loop Codes

Name

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE:NAME?

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE:NAME?

Loop-Up

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:UP

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:UP?

Loop-Down

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:DOWN

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:DOWN?

Signal - Signal Configuration (OTN)

OTU

FEC

:SOURce:DATA:TELEcom:OTN:FEC

:SOURce:DATA:TELEcom:OTN:FEC?

Frame Error Alarming

:SOURce:DATA:TELEcom:OTN:FEC:FCA

:SOURce:DATA:TELEcom:OTN:FEC:FCA?

Scrambler

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SCRambler

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SCRambler?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SCRambler

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler?

Background Traffic

:SOURce:DATA:TELEcom:OTN:BTRaffic:PT[1..n]

:SOURce:DATA:TELEcom:OTN:BTRaffic:PT[1..n]?

Signal - Signal Configuration (SONET/SDH)

OC/STM

Synchronization Status Message (S1)

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMessage

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMessage?

REI-L Computation Method

:SOURce:DATA:TELEcom:BACKground:COMPutation

:SOURce:DATA:TELEcom:BACKground:COMPutation?

STS/AU and VT/TU Mappings

Timeslot/Number

:SOURce:DATA:TELEcom:POSition
:SOURce:DATA:TELEcom:POSition?

TCM

:SOURce:DATA:TELEcom:SDHSonet:HOP:CONFig:TCM:ENABle
:SOURce:DATA:TELEcom:SDHSonet:HOP:CONFig:TCM:ENABle?
:SENSe:DATA:TELEcom:SDHSonet:HOP:CONFig:TCM:ENABle
:SENSe:DATA:TELEcom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELEcom:SDHSonet:LOP:CONFig:TCM:ENABle
:SOURce:DATA:TELEcom:SDHSonet:LOP:CONFig:TCM:ENABle?
:SENSe:DATA:TELEcom:SDHSonet:LOP:CONFig:TCM:ENABle
:SENSe:DATA:TELEcom:SDHSonet:LOP:CONFig:TCM:ENABle?

TC-UNEQ-P / TC-UNEQ-V / HPTC-UNEQ / LPTC-UNEQ

:SENSe:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle
:SENSe:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle?

:SENSe:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle
:SENSe:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle?

Overwrite Fixed Stuff

:SOURce:DATA:TELEcom:BACKground:BULK
:SOURce:DATA:TELEcom:BACKground:BULK?

Background

:SOURce:DATA:TELEcom:BACKground:SDHSonet:HOP
:SOURce:DATA:TELEcom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELEcom:BACKground:SDHSonet:LOP
:SOURce:DATA:TELEcom:BACKground:SDHSonet:LOP?

Signal Auto-Detect

Signal Auto-Detect

:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT

:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT?

:FETCh:DATA:TELEcom:SIGNal:AUTO:DETECT?

Line Coding

:FETCh:DATA:TELEcom:SIGNal:AUTO:DETECT:CODE?

Framing

:FETCh:DATA:TELEcom:SIGNal:AUTO:DETECT:DS[1..n]:FRAMing?

Test Pattern

:FETCh:DATA:TELEcom:SIGNal:AUTO:DETECT:PATtern?

Abort

:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT:ABORT

:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT:ABORT?

Status

:FETCh:DATA:TELEcom:SIGNal:AUTO:DETECT:STATe?

Smart Loopback

Loopback

Mode

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE?

Matching & Swapping

MAC Address

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MATCHing:MAC:ADDRes:MODE?

IP Address

:SOURce:DATA:TELEcom:ETHernet:PORT:ADDRes:IP?

IP LLA

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCAL:IPVersion:ADDRes?

IP GUA

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBAL:IPVersion:ADDRes?

UDP/TCP Port

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MATCHing:UDP:PORT:MODE?

Streams - Global

Enable

:SOURce:DATA:TELEcom:ETHernet:STReam:ENABled
:SOURce:DATA:TELEcom:ETHernet:STReam:ENABled?

Stream Name

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME
:SOURce:DATA:TELEcom:ETHernet:STReam:NAME?

Addressing - Batch - Addressing Batch Config

Source IP Address

Source IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

Couple with Interface / Automatic IP (CHCP) / Set to

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE?

IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP?

Subnet Mask

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

Default Gateway

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

Destination MAC Address

Destination MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

Resolve / Set to

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

MAC Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRes
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRes?

Destination IP Address

Destination IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

IP Address

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP?

(UN)Select All / Invert

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COpy

Apply To

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COpy:STReam
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COpy:STReam?
:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COpy:APPLy
:FETCh:DATA:TELEcom:ETHernet:STReam:BATCh:COpy:SYNC:PROGress?

Global Options

QoS Metrics Tag Insertion

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle
:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle?

Copy Stream

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:COPYstream

Restore Default

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:RESTore:DEFault

Streams - Profile

Stream

Stream Name

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME
:SOURce:DATA:TELEcom:ETHernet:STReam:NAME?

Enable

:SOURce:DATA:TELEcom:ETHernet:STReam:ENABled
:SOURce:DATA:TELEcom:ETHernet:STReam:ENABled?

Profile

Profile

Refer to *Profile (Stream)*.

Frame Size

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAME:SIZE:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAME:SIZE:TYPE?

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAME:SIZE
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAME:SIZE?

EMIX, refer to *EMIX* on page 401.

Sweep

```
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:STARt
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:STARt?
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END
:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END?
```

Shaping

TX Mode

```
:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE
:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE?
```

TX Rate / Max TX Rate

Percentage:

```
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE?
```

Mbit/s:

```
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS?
```

Frame Count

```
:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:NFRame
:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:NFRame?
```

Total TX Rate

```
:SOURce:DATA:TELEcom:ETHernet:ENABled:BANDwidth?
```

Link Capacity

```
:SOURce:DATA:TELEcom:ETHernet:TOTal:BANDwidth?
```

QoS Metrics

Global Pass/Fail Verdict

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:VERDict
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:VERDict?

Global Threshold Type

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:TYPE?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE?

Throughput Threshold

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:STATUS
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:STATUS?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum?

Frame Loss Count/Rate Threshold

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:STATUS
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:STATUS?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:RATE
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:RATE?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:COUNt
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:COUNt?

Out-of-Sequence Count/Rate Threshold

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATUS
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATUS?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt?

Jitter Threshold

```
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:STATus
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:STATus?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:VALue
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:VALue?
```

Latency Threshold

```
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus?
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue
:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue?
```

SyncE**ESMC Monitoring**

LINK

```
:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:ESMC?
```

Received QL

```
:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:RECeivedql?
```

QL Mismatch Monitoring

```
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:QLMismatch
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:QLMismatch?
```

Expected QL

```
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql?
```

Pass/Fail Verdict

```
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:PASSfail:VERDict?
```

ESMC Rate Threshold

```
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold
:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold?
```

ESMC Generation

Generated QL

*:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENa
ble*

*:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENa
ble?*

*:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValu
e*

*:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValu
e?*

QL Rate

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:QLRate

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?

System / System - General

Factory Default

Restore Default

:SOURce:DATA:TELEcom:FACTory:RESTore:DEFault

Notification Control

:SOURce:DATA:TELEcom:TRANsceiver:TFAult:ENABle

:SOURce:DATA:TELEcom:TRANsceiver:TFAult:ENABle?

System - GNSS

Configuration

Constellation

:SOURce:DATA:TELEcom:GNSS:CONStellation

:SOURce:DATA:TELEcom:GNSS:CONStellation?

QZSS

:SOURce:DATA:TELEcom:GNSS:QZSS:ENABle

:SOURce:DATA:TELEcom:GNSS:QZSS:ENABle?

Time Source / Variant

:SOURce:DATA:TELEcom:GNSS:TSource

:SOURce:DATA:TELEcom:GNSS:TSource?

:SOURce:DATA:TELEcom:GNSS:VARiant

:SOURce:DATA:TELEcom:GNSS:VARiant?

Position Mode

:SOURce:DATA:TELEcom:GNSS:PMODE

:SOURce:DATA:TELEcom:GNSS:PMODE?

Coordinates (Antenna Coordinates)

:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude

:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude?

:SOURce:DATA:TELEcom:GNSS:ANTenna:LONGitude

:SOURce:DATA:TELEcom:GNSS:ANTenna:LONGitude?

:SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude

:SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude?

SCPI Command List - Setup

System - GNSS

Restart

:SOURce:DATA:TELEcom:GNSS:REStart

Desired Accuracy

:SOURce:DATA:TELEcom:GNSS:DACC

:SOURce:DATA:TELEcom:GNSS:DACC?

Cable Delay

:SOURce:DATA:TELEcom:GNSS:CDELaY

:SOURce:DATA:TELEcom:GNSS:CDELaY?

Holdover

Oscillator Warm-Up

:FETCh:DATA:TELEcom:GNSS:WUP:STATus?

:FETCh:DATA:TELEcom:GNSS:WUP:RTIME?

Discipline Oscillator

:SOURce:DATA:TELEcom:GNSS:DISCipline:ENABle

:SOURce:DATA:TELEcom:GNSS:DISCipline:ENABle?

:FETCh:DATA:TELEcom:GNSS:DISCipline:STATus?

:FETCh:DATA:TELEcom:GNSS:DISCipline:PROGress?

Holdover

:SOURce:DATA:TELEcom:GNSS:HOLDOver:ENABle

:SOURce:DATA:TELEcom:GNSS:HOLDOver:ENABle?

:FETCh:DATA:TELEcom:GNSS:HOLDOver:STATus?

Estimated Holdover Remaining Time

:FETCh:DATA:TELEcom:GNSS:HOLDOver:RTIME?

Elapsed time

:FETCh:DATA:TELEcom:GNSS:HOLDOver:ETIME?

Statuses

:SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude?

GNSS

:FETCh:DATA:TELEcom:GNSS?

Status

:FETCh:DATA:TELEcom:GNSS:STATus?

Time Lock

:FETCh:DATA:TELEcom:GNSS:TLOCK?

UTC Variant

:FETCh:DATA:TELEcom:GNSS:UTC?

Jamming

:FETCh:DATA:TELEcom:GNSS:JAMMING?

of Sat used

:FETCh:DATA:TELEcom:GNSS:SATellite?

Coordinates

:FETCh:DATA:TELEcom:GNSS:ANTenna:LATitude?

:FETCh:DATA:TELEcom:GNSS:ANTenna:LONGitude?

:FETCh:DATA:TELEcom:GNSS:ANTenna:ALTitude?

Satellites Histogram

:FETCh:DATA:TELEcom:GNSS:HISTogram?

TA/TA4-...

:FETCh:DATA:TELEcom:TA:INFO?

For TA-SYNC:

:FETCh:DATA:TELEcom:TA:SYNC:INFO?

For Loopback Tool:

:FETCh:DATA:TELEcom:SLT:TA:INFO?

Test Configurator

Transceiver Status

:FETCh:DATA:TELecom:OPTical:MODule:STATus?

TA Status

:FETCh:DATA:TELecom:TA:INFO?

Transceiver Transaction Fault Status

:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?

Test Sequence - iOptics

Control Pin Check

:SOURce:DATA:TELecom:IOPTics:CPCheck

:SOURce:DATA:TELecom:IOPTics:CPCheck?

Power Threshold (W)

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?

Pass/Fail Verdict

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?

Temp. Threshold (°C)

:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold

:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold

TX Power Range (dBm)

:FETCh:DATA:TELecom:IOPTics:POWer:TX:RANGe?

RX Power Range (dBm)

:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe?

BERT Duration

:SOURce:DATA:TELecom:IOPTics:BERT:DURation

:SOURce:DATA:TELecom:IOPTics:BERT:DURation?

BERT Threshold

:SOURce:DATA:TELEcom:IOPTics:BERT:THReshold?

Skew Threshold (Bits)

:SOURce:DATA:TELEcom:IOPTics:SKEW:THReshold?

TCP Throughput

TCP Mode

:SOURce:DATA:TELEcom:ETHernet:TCP:MODE

:SOURce:DATA:TELEcom:ETHernet:TCP:MODE?

TCP Connection Configuration

Remote IP Address

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:RIP

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:RIP?

Accept Connection From IP

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:LIP

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:LIP?

IP TOS/DS

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs?

TCP Port

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:PORT

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:PORT?

TCP Throughput Configuration

Initial Window Size

:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:INTSize
:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:INTSize?

fMinimum Window Size

:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:MINSize
:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:MINSize?

Maximum Window Size

:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:MAXSize
:SOURce:DATA:TELEcom:ETHernet:TCP:THROUGHput:MAXSize?

Throughput Pass/Fail Verdict

:SOURce:DATA:TELEcom:VERDict:ENABle
:SOURce:DATA:TELEcom:VERDict:ENABle?

Threshold

:SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold
:SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold?

Restore TCP Throughput Defaults

:SOURce:DATA:TELEcom:RESTore:DEFault

Timer

Timer

Duration / Start Time / Stop Time check boxes

:SOURce:DATA:TELEcom:TIMer:CONFig

:SOURce:DATA:TELEcom:TIMer:CONFig?

Duration

:SOURce:DATA:TELEcom:TIMer:DURation

:SOURce:DATA:TELEcom:TIMer:DURation?

:SOURce:DATA:TELEcom:TIMer:UDEFinEd

:SOURce:DATA:TELEcom:TIMer:UDEFinEd?

Start Time

:SOURce:DATA:TELEcom:TIMer:STARt

:SOURce:DATA:TELEcom:TIMer:STARt?

Stop Time

:SOURce:DATA:TELEcom:TIMer:STOP

:SOURce:DATA:TELEcom:TIMer:STOP?

ARM

:SOURce:DATA:TELEcom:TIMer

:SOURce:DATA:TELEcom:TIMer?

Traces (OTN)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE
:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

OTU - SM TTI Traces

Overwrite

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd?
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABLEd
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABLEd?
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABLEd
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABLEd?

SAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n]
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:SAPI:B
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted?

DAPI**- Received Message**

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?

- Expected Message

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted?

Operator Specific**- Received Message**

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?

SAPI/DAPI OTU-TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM?

ODU - PM TTI Traces

Overwrite

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled?

Channel selection for Multi-Channel OTN

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACHannel

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACHannel?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CHANnel

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CHANnel?

Expected Message (SAPI and DAPI) for Multi-Channel OTN: Icon indicating that at least one channel uses a different message.

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:GOVERwrite?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:GOVERwrite?

SAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B?

- Expected Message

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted?
```

DAPI

- Received Message

```
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:DAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:DAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:DAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:DAPI:B?
```

- Expected Message

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted?
```

Operator Specific

- Received Message

```
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:OPSPec:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:OPSPec:B?
```

SCPI Command List - Setup

Traces (OTN)

SAPI/DAPI ODU-TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:TIM?

ODU - TCM TTI Traces

SAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted?

DAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted?

Operator Specific

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?

SAPI/DAPI TCM-TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Traces (SONET/SDH)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE
:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

Traces

Section/RS (J0)

- Format

:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern
:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern?

- Generated

:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern:B
:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern:B?

STS/AU/TU-3 Path (J1)

- Format

:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:PATtern
:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:PATtern?

- Generated

- Format

:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:PATtern:B
:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:PATtern:B?

VT/TU Path (J2)

- Format

:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern
:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern?

- Generated

:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern:B
:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern:B?

TIM-S/RS-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM?

- **Format**

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern?

- **Expected**

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B?

TIM-P/HP-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM?

- **Format**

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern?

- **Expected**

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern:B

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern:B?

TIM-V/LP-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM?

- **Format**

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern?

- **Expected**

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B?

TCM Access Point Identifier

STS/AU Path (N1)

- Generated

:SOURce:DATA:TELEcom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage
:SOURce:DATA:TELEcom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:EXPeCted
:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:EXPeCted?

- Enable

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:TCTim
:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:TCTim?

VT/TU Path (Z6 or N1 (TU-3))

- Generated

:SOURce:DATA:TELEcom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage
:SOURce:DATA:TELEcom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage?

- Generated

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:EXPeCted
:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:EXPeCted?

- Enable

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:TCTim
:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:TCTim?

Traces/PT (FlexO)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE
:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

SM TTI Traces

Overwrite

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd?

SAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n]
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?

- Expected Message

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?

DAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:DAPI:B[1..n]
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

- Expected Message

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

SCPI Command List - Setup

Traces/PT (FlexO)

Operator Specific

- Received Message

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]
:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?

SAPI/DAPI OTU-TIM

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM?

PM TTI Traces

Client ID selection for ODUk

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACLient
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACLient?

Expected Message (SAPI and DAPI): Icon indicating that at least one client uses a different message.

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?

SAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:SAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

DAPI

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:DAPI:B
:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:DAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?

Operator Specific

- Received Message

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:OPSPec:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:PM:OPSPec:B?

SAPI/DAPI ODU-TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM?

PT/Global PT

Client ID selection for ODUk

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:ACLient

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:ACLient?

Payload Type

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPE?

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPE

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPE?

Payload Type - Global Overwrite Status Icon

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:GOVErwrite?

Code

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PCODE

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE?

OPU-PLM

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PLM

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PLM?

6 SCPI Command List - Results

Note: The symbol || precedes a parallel interface command when a different command is used for a serial interface.

Note: For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:
:SOURce:DATA:TELEcom:PORT

Note: For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:
:SOURce:DATA:TELEcom:LINK

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SCPI Command List - Results

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Alarms/Errors

Quick Access to Alarms/Errors per Layer

BER | Clock | CPRI | DS1 | DS3 | E1 | E2 | E3 | E4 | Electrical Interface | Ethernet | Ethernet - PCS | Ethernet - PCS Lanes | FEC (FlexO) | FEC (OTN) | FEC Lanes | Fibre Channel (including RS-FEC layer) | FlexE Group | FlexO Group / OTUC Frame | FOICx.y | GFP | GMP | Interface | IP/UDP/TCP | Media RX FEC | MPLS-TP OAM | OBSAI | ODUx/ODUk/ODUCn | ODUx-TCM | OPUx/OPUk/OPUCn | OTL | OTUx/OTUCn/OTUC Frame | Path OAM | PHY | PHYs/Instances (FlexE - Group) | PTP | QoS Metrics | RS-FEC | RX (DCO) | S-OAM | Section/Line/RS/MS | STS-x / AU-x | SyncE | TCM (SONET/SDH) | Transcoding | TX (DCO) | VT/TU | WIS

Alarms/Errors Layer per Test Application

➤ Transport

Test Application	Interface	Alarms/Errors
DCO BERT	All	<i>Media RX FEC RX (DCO) TX (DCO)</i>
FlexO BERT	100G	<i>BER FEC (FlexO) FEC Lanes FlexO Group / OTUC Frame FOICx.y Interface ODUx/ODUk/ODUCn OPUx/OPUk/OPUCn OTUx/OTUCn/OTUC Frame</i>
OTN BERT	All	<i>BER Clock Ethernet FEC (OTN) GFP GMP Interface ODUx/ODUk/ODUCn ODUx-TCM OPUx/OPUk/OPUCn OTUx/OTUCn/OTUC Frame</i>
	OTU3	<i>Transcoding OTL</i>
	OTU4	<i>OTL</i>
Multi-Channel OTN	OTU4	<i>BER Clock Interface ODUx/ODUk/ODUCn OPUx/OPUk/OPUCn OTL OTUx/OTUCn/OTUC Frame</i>
SONET/SDH BERT	All	<i>BER Clock Interface Section/Line/RS/MS STS-x / AU-x TCM (SONET/SDH) VT/TU</i>
OTN-SONET/SDH BERT	All	<i>BER Clock FEC (OTN) GMP Interface ODUx/ODUk/ODUCn ODUx-TCM OPUx/OPUk/OPUCn OTUx/OTUCn/OTUC Frame Section/Line/RS/MS STS-x / AU-x</i>
	OTU3, OTU4	<i>OTL</i>
DSn/PDH BERT	All	<i>BER DS1 DS3 E1 E2 E3 E4 Interface</i>
SONET/SDH - DSn/PDH BERT	All	<i>BER DS1 DS3 E1 E2 E3 E4 Interface Section/Line/RS/MS STS-x / AU-x TCM (SONET/SDH) VT/TU</i>

Test Application	Interface	Alarms/Errors
NI/CSU Emulation	DS1	<i>Interface DS1 DS3</i>

➤ Ethernet

Test Application	Interface	Alarms/Errors
Carrier Ethernet OAM	All	<i>Clock Ethernet Interface MPLS-TP OAM S-OAM</i>
	10GE WAN	<i>WIS</i>
EtherBERT	All	<i>BER Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	25GE	<i>RS-FEC</i>
	50GE, 100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
	200GE, 400GE	<i>Ethernet - PCS Ethernet - PCS Lanes</i>
EtherSAM	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	25GE	<i>RS-FEC</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
	400GE	<i>Ethernet - PCS Ethernet - PCS Lanes</i>
FlexE BERT	100GE	<i>BER Ethernet Ethernet - PCS Ethernet - PCS Lanes FEC Lanes FlexE Group Interface Path OAM PHY PHYs/Instances (FlexE - Group) RS-FEC</i>
RFC 2544	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	25GE	<i>RS-FEC</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
	400GE	<i>Ethernet - PCS Ethernet - PCS Lanes</i>

SCPI Command List - Results

Alarms/Errors

Test Application	Interface	Alarms/Errors
RFC 6349	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
Smart Loopback	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	25GE	<i>RS-FEC</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
	400GE	<i>Ethernet - PCS Ethernet - PCS Lanes</i>
TCP Throughput	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
Through Mode	All	<i>Clock Ethernet Interface IP/UDP/TCP</i>
	10GE WAN	<i>WIS</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
Traffic Gen & Mon	All	<i>Clock Ethernet Interface IP/UDP/TCP QoS Metrics</i>
	10GE WAN	<i>WIS</i>
	25GE	<i>RS-FEC</i>
	100GE	<i>Ethernet - PCS Ethernet - PCS Lanes FEC Lanes RS-FEC</i>
	400GE	<i>Ethernet - PCS Ethernet - PCS Lanes</i>

➤ Sync

Test Application	Interface	Alarms/Errors
1588 PTP	All	<i>Ethernet Interface IP/UDP/TCP PTP</i>
SyncE	All	<i>Ethernet Interface IP/UDP/TCP SyncE</i>

► Fibre Channel

Test Application	Interface	Alarms/Errors
FC BERT	All	<i>BER Clock Fibre Channel (including RS-FEC layer) Interface</i>

► Wireless

Test Application	Interface	Alarms/Errors
CPRI/OBSAI BERT	All	<i>BER Clock Interface</i>
	CPRI rates	<i>CPRI, RS-FEC (24.3G)</i>
	OBSAI rates	<i>OBSAI</i>
eCPRI BERT	10G	<i>BER Clock Ethernet Interface QoS Metrics</i>
	25G	<i>RS-FEC</i>

FlexE

- Port

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

- Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

- FlexE PHY Number

:SOURce:DATA:TELEcom:FETHernet:GROup:PNUMBER?

- Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALENDAR:CONFig?

SCPI Command List - Results

Alarms/Errors

FlexO

- Port

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

- FlexO Instance ID

:SOURce:DATA:TELEcom:FOTN:INSTance:IDentifier?

Multiple Link Interface

- Link

:SOURce:DATA:TELEcom:LINK

:SOURce:DATA:TELEcom:LINK?

Global Layer

:FETCh:DATA:TELEcom:ALARm:HISTory?

:FETCh:DATA:TELEcom:ALARm:SEConds?

:FETCh:DATA:TELEcom:ALARm:CURREnt?

:FETCh:DATA:TELEcom:ERRor:HISTory?

:FETCh:DATA:TELEcom:ERRor:SEConds?

:FETCh:DATA:TELEcom:ERRor:CURREnt?

:FETCh:DATA:TELEcom:ERRor:COUNt?

:FETCh:DATA:TELEcom:ERRor:RATE?

:FETCh:DATA:TELEcom:ERRor:COUNt:TOTal?

:FETCh:DATA:TELEcom:ERRor:RATE:TOTal?

BER

Alarms

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:CURREnt?

- Client Frequency:

:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:HISTory?

:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:CURREnt?

:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:SEConds?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:SEConds?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:COUNt?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:CURREnt?

Injection**- Channel**

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:CHANnel

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:CHANnel?

:SOURce:DATA:TELEcom:PATtern:ALARm:PATtern:CHANnel

:SOURce:DATA:TELEcom:PATtern:ALARm:PATtern:CHANnel?

Mode Manual**- Defect**

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMount

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMount?

- Inject

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INJect

Mode Rate/Max Rate**- Mode**

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTinuous

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE?

SCPI Command List - Results

Alarms/Errors

- Rate

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated:RATE

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated:RATE?

- Inject

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:TYPE?

- Inject

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern

Clock

Alarms

:INPut:TELecom:BACKplane:ALARm:STATus:HISTory?

:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?

:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

CPRI

Alarms

:FETCh:DATA:TELecom:CPRI:ALARm:HISTory?

:FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

:FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

Injection

Mode Manual**- Defect**

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:DEFect

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:DEFect?

- Amount

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:AMOUnt

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:AMOUnt?

- Inject

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:INJect

Mode Rate/Max Rate**- Mode**

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:DEFect

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:DEFect?

- Rate

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated?

Mode Continuous**- Defect**

:SOURce:DATA:TELEcom:CPRI:ALARm:DEFect

:SOURce:DATA:TELEcom:CPRI:ALARm:DEFect?

- Inject

:SOURce:DATA:TELEcom:CPRI:ALARm:GENerate

:SOURce:DATA:TELEcom:CPRI:ALARm:GENerate?

DS1 | DS3

Alarms

:FETCh:DATA:TELEcom:DSN:ALARm:DS[1..n]:HISTory?
:FETCh:DATA:TELEcom:DSN:ALARm:DS[1..n]:SEConds?
:FETCh:DATA:TELEcom:DSN:ALARm:DS[1..n]:CURRent?

Errors

:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:HISTory?
:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:SEConds?
:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:CURRent?
:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:COUNT?
:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:RATE?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOut
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOut?

- Inject

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated
:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated?

Mode Continuous**- Defect**

:SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]:TYPE
:SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]:TYPE?

- Inject

:SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]
:SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]?

E1 | E2 | E3 | E4**Alarms**

:FETCh:DATA:TELEcom:PDH:ALARm:E[1..n]:HISTory?
:FETCh:DATA:TELEcom:PDH:ALARm:E[1..n]:SEConds?
:FETCh:DATA:TELEcom:PDH:ALARm:E[1..n]:CURRent?

Errors

:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:HISTory?
:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:SEConds?
:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:CURRent?
:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:COUNt?
:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:RATE?

Injection**Mode Manual****- Defect**

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AMOUNt
:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AMOUNt?

- Inject

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:INJect

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:TYPE

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:RATE

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE

:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE?

- Inject

:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]

:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]?

Electrical Interface

Alarms

Note: *Not available yet.*

Ethernet

Alarms

Note: *Refer also to Ethernet - PCS on page 204 and Ethernet - PCS Lanes on page 205.*

For rates up to 25G or FlexE client:

```
:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:SEConds?
```

For parallel interfaces or serial interfaces 25G and up:

```
:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?
```

- Ethernet over OTN:

```
:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:HISTory?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:CURREnt?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:SEConds?
```

- Client Frequency:

```
:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:HISTory?
:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:SEConds?
```

- Ethernet **No Traffic** for FlexE Client:

```
:FETCh:DATA:TELEcom:ETHernet:ALARm:MAC:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ALARm:MAC:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:MAC:SEConds?
```

Errors

For rates up to 25G or FlexE client:

```
:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:RATE?
```

```
:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:RATE?
```

SCPI Command List - Results

Alarms/Errors

- PCS Layer

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:SEConds:TOTal?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:COUNt:TOTal?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:RATE:TOTal?

- Ethernet over OTN:

:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:HISTory?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:CURREnt?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:SEConds?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:COUNt?
:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:RATE?

Oversize Monitoring

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:OVERsize
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:OVERsize?

Injection

Mode Manual

- Client ID (FlexE - Client)

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier
:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:MANual:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:MANual:TYPE?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:MANual:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AMOUNT
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AMOUNT?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUNT
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUNT?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:INJect
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:INJect

Mode Rate/Max Rate**- Mode**

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:TYPE?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:RATE
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:RATE?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated
:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated?
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated
:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated?

SCPI Command List - Results

Alarms/Errors

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:ETHernet:ALARm:LRATe:TYPE
:SOURce:DATA:TELEcom:ETHernet:ALARm:LRATe:TYPE?
:SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical:TYPE
:SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical:TYPE?
- PCS Layer
:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE
:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ALARm:LRATe
:SOURce:DATA:TELEcom:ETHernet:ALARm:LRATe?
:SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical
:SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical?
- PCS Layer
:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical
:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical?

Ethernet - PCS

Note: Refer also to Ethernet on page 200 and Ethernet - PCS Lanes on page 205.

Alarms

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Errors

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:SEConds:TOTal?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:RATE:TOTal?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMount
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMount?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated
 :SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?

Ethernet - PCS Lanes

Note: Refer also to Ethernet on page 200 and Ethernet - PCS on page 204.

Alarms

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
 :FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURREnt?
 :FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?
 :FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:HISTory?
 :FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:CURREnt?
 :FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:SEConds?

SCPI Command List - Results

Alarms/Errors

Errors

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

- Total

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal?

Skew Alarm Threshold

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold
:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?
- Default button
:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault

Injection

Lane

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE?
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?

Mode Manual

- Defect

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

- Amount

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUnt
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUnt?

- Inject

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?

FEC (FlexO)

Port

:SOURce:DATA:TELEcom:PORT

Errors

Global:

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:HISTory?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:SEConds?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:CURR?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:COUNt?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:RATE?

Per Lane:

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:HISTory?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:SEConds?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:CURREnt?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:COUNt?
:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:RATE?

Injection

SCPI Command List - Results

Alarms/Errors

Lane

:SOURce:DATA:TELEcom:FOTN:FEC:LANE
:SOURce:DATA:TELEcom:FOTN:FEC:LANE?
:SOURce:DATA:TELEcom:FOTN:FEC:ALANes
:SOURce:DATA:TELEcom:FOTN:FEC:ALANes?

Mode Manual

- Defect

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMount
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMount?

- Inject

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated
:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated?

FEC (OTN)

Errors

:FETCh:DATA:TELEcom:OTN:ERRor:FEC:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:FEC:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:FEC:CURREnt?
:FETCh:DATA:TELEcom:OTN:ERRor:FEC:COUnT?
:FETCh:DATA:TELEcom:OTN:ERRor:FEC:RATE?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUnt
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUnt?

- Inject

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated?

SCPI Command List - Results

Alarms/Errors

FEC Lanes

Alarms

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:CURREnt?

Errors

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:RATE?
:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:CURREnt?

Fibre Channel (including RS-FEC layer)

Alarms

:FETCh:DATA:TELEcom:FIBer:ALARm:PHYSical:HISTory?
:FETCh:DATA:TELEcom:FIBer:ALARm:PHYSical:CURREnt?
:FETCh:DATA:TELEcom:FIBer:ALARm:PHYSical:SEConds?

Errors

FCS, Oversize, and Undersize

:FETCh:DATA:TELEcom:FIBer:ERRor:FC:HISTory?
:FETCh:DATA:TELEcom:FIBer:ERRor:FC:CURREnt?
:FETCh:DATA:TELEcom:FIBer:ERRor:FC:SEConds?
:FETCh:DATA:TELEcom:FIBer:ERRor:FC:COUNt?
:FETCh:DATA:TELEcom:FIBer:ERRor:FC:RATE?

Symbol, Block, FEC-COR-CW, FEC-UNCOR-CW, and Pre-FEC-SYMB

:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:CURREnt?
:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:RATE?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:TYPE

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:TYPE?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:AMOUNT

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:AMOUNT?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:AMOUNT

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:AMOUNT?

- Inject

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:INJECT

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:INJECT

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:CONTInuous?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:TYPE?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:RATE

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated?

For **RS-FEC** Layer

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:FIBer:ALARm:RSFec:TYPE?

- Inject

:SOURce:DATA:TELEcom:FIBer:ALARm:RSFec

:SOURce:DATA:TELEcom:FIBer:ALARm:RSFec?

FlexE Group

Alarms

:FETCh:DATA:TELEcom:FETHernet:GROup:ALARm:CURRent?
:FETCh:DATA:TELEcom:FETHernet:GROup:ALARm:HISTory?
:FETCh:DATA:TELEcom:FETHernet:GROup:ALARm:SEConds?

FlexO Group / OTUC Frame

Port

:SOURce:DATA:TELEcom:PORT

OTUC

:SOURce:DATA:TELEcom:OTN:OTUC:NUMBer

Alarms

Group Down

:FETCh:DATA:TELEcom:FOTN:GROup:ALARm:SEConds?
:FETCh:DATA:TELEcom:FOTN:GROup:ALARm:SEConds?
:FETCh:DATA:TELEcom:FOTN:GROup:ALARm:HISTory?

:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:SEConds?
:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:CURRent?
:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:HISTory?

:SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold
:SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold?
:SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold:RESet

Errors

:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:SEConds?
:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:COUNt?
:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:RATE?
:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:CURRent?
:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:HISTory?

Injection

SCPI Command List - Results

Alarms/Errors

Instance

:SOURce:DATA:TELEcom:FOTN:FLXO:INSTance

:SOURce:DATA:TELEcom:FOTN:FLXO:INSTance?

Mode Manual

- Defect

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:MANual:TYPE

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:MANual:AMOut

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:MANual:AMOut?

- Inject

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELEcom:FOTN:FLXO:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm:TYPE

:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm:TYPE?

- Inject

:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm

:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm?

FOICx.y

Port

:SOURce:DATA:TELEcom:PORT

Alarms

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:CURREnt?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:HISTory?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:CURREnt?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:HISTory?

Errors

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:COUNt?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:RATE?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:CURREnt?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:HISTory?

Skew Alarm Thresholds (ns)

:SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold

:SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold?

Injection

Lane

:SOURce:DATA:TELEcom:FOTN:FOIC:LANE

:SOURce:DATA:TELEcom:FOTN:FOIC:LANE?

:SOURce:DATA:TELEcom:FOTN:FOIC:ALANes

:SOURce:DATA:TELEcom:FOTN:FOIC:ALANes?

SCPI Command List - Results

Alarms/Errors

Mode Manual

- Defect

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AMOUNT
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AMOUNT?

- Inject

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated
:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated?

GFP

Alarms

:FETCh:DATA:TELEcom:GFP:ALARm:FRAMe:HISTory?
:FETCh:DATA:TELEcom:GFP:ALARm:FRAMe:CURREnt?
:FETCh:DATA:TELEcom:GFP:ALARm:FRAMe:SEConds?

:FETCh:DATA:TELEcom:GFP:ALARm:CHANnel:HISTory?
:FETCh:DATA:TELEcom:GFP:ALARm:CHANnel:CURREnt?
:FETCh:DATA:TELEcom:GFP:ALARm:CHANnel:SEConds?

Errors

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUnT?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:HISTory?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUnT?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

Reserved CMF Monitoring

:SOURce:DATA:TELecom:GFP:CONFig:CMF
:SOURce:DATA:TELecom:GFP:CONFig:CMF?

Injection**Mode Manual****- Defect**

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?

- Amount

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOut
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOut?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOut
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOut?

- Inject

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:INJect
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:INJect

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:TYPE
:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:TYPE?
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:TYPE
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:RATE
:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:RATE?
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:RATE
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated
:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated?
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated
:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated?

Mode Continuous**- Defect**

:SOURce:DATA:TELEcom:GFP:ALARm:FRAME:TYPE
:SOURce:DATA:TELEcom:GFP:ALARm:FRAME:TYPE?
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:TYPE
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:TYPE?

- Period

:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:PERiod
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:PERiod?

- User-Defined UPI

:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:UPI
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:UPI?

- Inject

:SOURce:DATA:TELEcom:GFP:ALARm:FRAME
:SOURce:DATA:TELEcom:GFP:ALARm:FRAME?
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel
:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel?

GMP**Alarms**

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:SEConds?

Errors

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:COUnT?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE?

Interface

Port

:SOURce:DATA:TELEcom:PORT

Alarms

- Optical Parallel Interfaces

Global for **LOS**:

||:FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:HISTory?

||:FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:CURREnt?

Global for **Frequency** and **LOC Lane**:

||:FETCh:DATA:TELEcom:CAUI:ALARm:GLOBal:HISTory?

||:FETCh:DATA:TELEcom:CAUI:ALARm:GLOBal:CURREnt?

Per Lane for **LOS**:

||:FETCh:DATA:TELEcom:OPTical:ALARm:RX:HISTory?

||:FETCh:DATA:TELEcom:OPTical:ALARm:RX:CURREnt?

||:FETCh:DATA:TELEcom:OPTical:ALARm:RX:SEConds?

Per Lane for **Frequency** and **LOC Lane**:

||:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory?

||:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURREnt?

||:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

- Optical Serial Interfaces

:FETCh:DATA:TELEcom:OPTical:ALARm:RX:HISTory?

:FETCh:DATA:TELEcom:OPTical:ALARm:RX:CURREnt?

:FETCh:DATA:TELEcom:OPTical:ALARm:RX:SEConds?

- Electrical

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:HISTory?

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:CURREnt?

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:SEConds?

- **LOC** (for DS_n/PDH BERT and SONET/SDH - DS_n/PDH BERT test applications)

:INPut:TELEcom:BACKplane:ALARm:STATus:HISTory?

:INPut:TELEcom:BACKplane:ALARm:STATus:CURRent?

:INPut:TELEcom:BACKplane:ALARm:STATus:SEConds?

Errors

- Electrical

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:HISTory?

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:CURRent?

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:SEConds?

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:COUNt?

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:RATE?

- CPRI

For **CV**:

:FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:SEConds?

:FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:COUNt?

:FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:RATE?

:FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:CURRent?

For **K30.7**:

:FETCh:DATA:TELEcom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELEcom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELEcom:CPRI:ERRor:RATE?

:FETCh:DATA:TELEcom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:ERRor:CURRent?

Injection

Lane

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes?

SCPI Command List - Results

Alarms/Errors

Mode Manual

- Defect

:SOURce:DATA:TELEcom:ELECtrical:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:ELECtrical:ERRor:MANual:TYPE?
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:TYPE?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AMOut
:SOURce:DATA:TELEcom:ELECtrical:ERRor:AMOut?
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:AMOut
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:AMOut?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:AMOut
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:AMOut?

- Inject

:SOURce:DATA:TELEcom:ELECtrical:ERRor:INJect
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:INJect
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE?

:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:RATE?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated
:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated?
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated
:SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated?
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated
:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:AUTomated?

Mode Continuous**- Lane**

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes?

- Defect

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:TYPE?
:SOURce:DATA:TELEcom:ELECtrical:ALARm:PORT:TYPE?

- Inject

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT?
:SOURce:DATA:TELEcom:ELECtrical:ALARm:PORT
:SOURce:DATA:TELEcom:ELECtrical:ALARm:PORT?

SCPI Command List - Results

Alarms/Errors

IP/UDP

Errors

- IP

:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:COUNT?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:RATE?

- UDP

:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:COUNT?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:RATE?

IP/UDP/TCP

Errors

- IP

:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:COUNT?
:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:RATE?

- UDP

:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:COUNT?
:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:RATE?

- TCP

:FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:HISTory?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:CURRent?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:SEConds?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:COUNT?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:RATE?

Media RX FEC

Alarms

Note: Not supported yet.

Errors

:FETCh:DATA:TELEcom:DCO:ERRor:MEDia:RX:CURRent?
 :FETCh:DATA:TELEcom:DCO:ERRor:MEDia:RX:HISTory?
 :FETCh:DATA:TELEcom:DCO:ERRor:MEDia:RX:SEConds?
 :FETCh:DATA:TELEcom:DCO:ERRor:MEDia:RX:COUNT?
 :FETCh:DATA:TELEcom:DCO:ERRor:MEDia:RX:RATE?

MPLS-TP OAM

Alarms

:FETCh:DATA:TELEcom:SOAM:ALARm:HISTory?
 :FETCh:DATA:TELEcom:SOAM:ALARm:CURRent?
 :FETCh:DATA:TELEcom:SOAM:ALARm:SEConds?

Injection

Mode Continuous

- Address Type

:SOURce:DATA:TELEcom:SOAM:ALARm:ADDResS:TYPE
 :SOURce:DATA:TELEcom:SOAM:ALARm:ADDResS:TYPE?

- Defect

:SOURce:DATA:TELEcom:SOAM:ALARm:DEFect
 :SOURce:DATA:TELEcom:SOAM:ALARm:DEFect?

SCPI Command List - Results

Alarms/Errors

- Priority

:SOURce:DATA:TELEcom:SOAM:ALARm:PRiority

:SOURce:DATA:TELEcom:SOAM:ALARm:PRiority?

- Meg Level

:SOURce:DATA:TELEcom:SOAM:ALARm:MEG:LEVel

:SOURce:DATA:TELEcom:SOAM:ALARm:MEG:LEVel?

- MD Level

:SOURce:DATA:TELEcom:SOAM:ALARm:MD:LEVel

:SOURce:DATA:TELEcom:SOAM:ALARm:MD:LEVel?

- Period

:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod

:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod?

- Inject

:SOURce:DATA:TELEcom:SOAM:ALARm:GENerate

:SOURce:DATA:TELEcom:SOAM:ALARm:GENerate?

OBSAI

Alarms

:FETCh:DATA:TELEcom:CPRI:OBSai:ALARm:CURRent?

:FETCh:DATA:TELEcom:CPRI:OBSai:ALARm:HISTory?

:FETCh:DATA:TELEcom:CPRI:OBSai:ALARm:SEConds?

Errors

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:CURRent?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:SEConds?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:COUNT?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:RATE?

Injection

Mode Manual**- Defect**

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:DEFect?

- Amount

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:AMount

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:AMount?

- Inject

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:INJect

Mode Rate/Max Rate**- Mode**

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:DEFect

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:DEFect?

- Rate

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated?

Mode Continuous**- Defect**

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:DEFect

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:DEFect?

- Inject

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:GENerate

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:GENerate?

SCPI Command List - Results

Alarms/Errors

ODUx/ODUk/ODUCn

Alarms

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:CURRent?

Errors

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:COUNT?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNT?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:COUNT?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:RATE?

Injection

OTUC selection for FlexO

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC:ALL?
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:OTUC:ALL?
```

Mode Manual

- Channel

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:ACHannel
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:ACHannel?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:CHANnel
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:CHANnel?
```

- Defect

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:MANual:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?
```

- Amount

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AMount?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:INJect
```

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated?

Mode Continuous

- Channel

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:ACHannel
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:ACHannel?
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:CHANnel
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:CHANnel?

- Defect

```
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TYPE?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F?
```

ODUx-TCM

Alarms

```
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent?
```

SCPI Command List - Results

Alarms/Errors

Errors

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE?

Injection

Mode Manual

- Defect

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?
```

- Amount

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMount?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INJect
```

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CO NTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CO NTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInu ous

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInu ous?

- Defect

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYP E

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYP E?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE?

- Rate

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RAT E

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RAT E?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE?

- Inject

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated?
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE?

- Inject

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?

OPUx/OPUk/OPUCn

Alarms

:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:SEConds?
:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:CURRent?

MSIM Monitoring

:SENSe:DATA:TELEcom:OTN:OPU[1..n]:MSIM
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:MSIM?

Errors

:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:RATE?

Injection

OTUC selection for FlexO

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:OTUC:ALL?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:OTUC:ALL?

Channel

- Errors

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:ACHannel
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:ACHannel?
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:CHANnel
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:CHANnel?
```

- Alarms

```
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:ACHannel
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:ACHannel?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:CHANnel
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:CHANnel?
```

Mode Manual

- Defect

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:MANual:TYPE?
```

- Amount

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMount?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:INJect
```

Mode Rate/Max Rate

- Mode

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous?
```

- Defect

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?
```

- Rate

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated?
```

SCPI Command List - Results

Alarms/Errors

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:TYPE?

- Inject

:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:E?
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F
:SOURce:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F?

OTL

Alarms

- Global

:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:SEConds?

- Per Lane

:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:HISTory?
:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:CURREnt?
:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:SEConds?

Errors

- Global

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:CURREnt?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:HISTory?

- Per Lane

```
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:COUNT?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:COUNT:TOTal?
:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE:TOTal?
```

Injection

Lane

```
:SOURce:DATA:TELEcom:OTN:OTL:LANE
:SOURce:DATA:TELEcom:OTN:OTL:LANE?
:SOURce:DATA:TELEcom:OTN:OTL:ALANes
:SOURce:DATA:TELEcom:OTN:OTL:ALANes?
```

Mode Manual

- Defect

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:MANual:TYPE?
```

- Amount

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AMOUNT
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AMOUNT?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:INJECT
```

Mode Rate/Max Rate

- Mode

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:CONTinuous?
```

- Defect

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:TYPE?
```

- Rate

```
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:RATE?
```

SCPI Command List - Results

Alarms/Errors

- Inject

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:OTN:OTL:ALARm:TYPE

:SOURce:DATA:TELEcom:OTN:OTL:ALARm:TYPE?

LOL

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE?

- Inject

:SOURce:DATA:TELEcom:OTN:OTL:ALARm

:SOURce:DATA:TELEcom:OTN:OTL:ALARm?

LOL

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm?

OTUx/OTUCn/OTUC Frame

Alarms

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F:CURRent?

Errors

```
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE?

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:HISTory?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:CURRent?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:COUNt?
:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:RATE?
```

Injection

OTUC selection for FlexO

```
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:OTUC:ALL?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:OTUC
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:OTUC?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:OTUC:ALL
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:OTUC:ALL
```

SCPI Command List - Results

Alarms/Errors

Mode Manual

- Defect

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:MANual:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMount?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AMount
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AMount?

- Inject

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:INJect

Mode Rate/Max Rate

- Mode

```
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous?
```

- Defect

```
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE?
```

- Rate

```
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE?
```

- Inject

```
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated
:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:AUTomated?
```

SCPI Command List - Results

Alarms/Errors

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F:TYPE
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F:TYPE?

- Inject

:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]?
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F
:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:F?

Path OAM

Alarms

:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:CURRent?
:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:HISTory?
:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:SEConds?

CS Type Mismatch

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIGnal:ALARm:CURRent?
:FETCh:DATA:TELEcom:FETHernet:POAM:CSIGnal:ALARm:HISTory?
:FETCh:DATA:TELEcom:FETHernet:POAM:CSIGnal:ALARm:SEConds?

SAPI/DAPI Mismatch

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:CURRent?
:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:HISTory?
:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:SEConds?

Errors

BIP-8/REI:

:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:COUNT?
:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:CURRent?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds?

CRC4:

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNT?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:CURREnt?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds?

Injection**Mode Manual****- Defect**

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOUNT
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOUNT?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOUNT
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOUNT?

- Inject

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJECT
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:INJECT

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous
?

:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated?
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated
:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:TYPE
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:TYPE?

- Inject

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm
:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm?

PHY

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Injection

Mode Continuous

- **Port** selection

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

- **Defect** (Ethernet Layer)

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?

- **Inject**

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?

PHYs/Instances (FlexE - Group)

Alarms

:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:COUNt?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:RATE?

SCPI Command List - Results

Alarms/Errors

Injection

- PHY selection

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:SPHY

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:SPHY?

- PHY / Instance

:SOURce:DATA:TELEcom:FETHernet:PHY:SINStance

:SOURce:DATA:TELEcom:FETHernet:PHY:SINStance?

Mode Manual

- Defect

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:TYPE

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:AMount

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:AMount

- Inject

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated?

Mode Continuous**- Defect**

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:TYPE

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:TYPE?

- Inject

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm?

PTP**Alarms****- Loss Announce, QL Mismatch, and Domain Mismatch**

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:MESSAge:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:MESSAge:CURRent?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:MESSAge:SECond?

- Unusable

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:CURRent?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:SECond?

- Loss Sync

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SYNMessage:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SYNMessage:CURRent?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SYNMessage:SECond?

- Loss Delay Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:CURRent?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:SECond?

- Loss Session

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:CURRent?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:SECond?

QoS Metrics

Errors

- Global

:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:CURRent?

- Per Stream

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUNT?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

- Dual Port

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:COUNT?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:RATE?

RS-FEC

Alarms

- 25G

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

- 100G

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:CURRent?

Errors

- 25G

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:GLOBal:HISTory?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:GLOBal:CURREnt?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:SEConds:TOTAL?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:COUNt:TOTAL?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:PHYsical:RATE:TOTAL?

- 100G

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:SEConds?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:COUNt?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:RATE?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTory?
 :FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:CURREnt?

- CPRI - 24.3G

:FETCh:DATA:TELEcom:CPRI:FEC:ERRor:SEConds?
 :FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:COUNt?
 :FETCh:DATA:TELEcom:CPRI:INTerface:ERRor:COUNt?
 :FETCh:DATA:TELEcom:CPRI:FEC:ERRor:HISTory?
 :FETCh:DATA:TELEcom:CPRI:FEC:ERRor:CURREnt?

Injection

SCPI Command List - Results

Alarms/Errors

Mode Manual

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMount
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMount?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AMount
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AMount?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:INJect
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated
:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated
:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated?

RX (DCO)

Alarms

Note: *Not supported yet.*

S-OAM

Alarms

:FETCh:DATA:TELEcom:SOAM:ALARm:HISTory?

:FETCh:DATA:TELEcom:SOAM:ALARm:CURREnt?

:FETCh:DATA:TELEcom:SOAM:ALARm:SEConds?

Injection

- Address Type

:SOURce:DATA:TELEcom:SOAM:ALARm:ADDReSS:TYPE

:SOURce:DATA:TELEcom:SOAM:ALARm:ADDReSS:TYPE?

- Defect

:SOURce:DATA:TELEcom:SOAM:ALARm:DEFect

:SOURce:DATA:TELEcom:SOAM:ALARm:DEFect?

- Priority

:SOURce:DATA:TELEcom:SOAM:ALARm:PRiority

:SOURce:DATA:TELEcom:SOAM:ALARm:PRiority?

- MEG Level

:SOURce:DATA:TELEcom:SOAM:ALARm:MEG:LEVel

:SOURce:DATA:TELEcom:SOAM:ALARm:MEG:LEVel?

- MD Level

:SOURce:DATA:TELEcom:SOAM:ALARm:MD:LEVel

:SOURce:DATA:TELEcom:SOAM:ALARm:MD:LEVel?

- Period

:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod

:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod?

- Inject

:SOURce:DATA:TELEcom:SOAM:ALARm:GENerate

:SOURce:DATA:TELEcom:SOAM:ALARm:GENerate?

SCPI Command List - Results

Alarms/Errors

Section/Line/RS/MS

Alarms

- Section/RS

:FETCh:DATA:TELEcom:SDHSONet:ALARm:SECTion:HISTory?

:FETCh:DATA:TELEcom:SDHSONet:ALARm:SECTion:SEConds?

:FETCh:DATA:TELEcom:SDHSONet:ALARm:SECTion:CURREnt?

- Line/MS

:FETCh:DATA:TELEcom:SDHSONet:ALARm:LINE:HISTory?

:FETCh:DATA:TELEcom:SDHSONet:ALARm:LINE:SEConds?

:FETCh:DATA:TELEcom:SDHSONet:ALARm:LINE:CURREnt?

Errors

- Section/RS

:FETCh:DATA:TELEcom:SDHSONet:ERRor:SECTion:HISTory?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:SECTion:SEConds?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:SECTion:CURREnt?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:SECTion:COUNt?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:SECTion:RATE?

- Line/MS

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LINE:HISTory?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LINE:SEConds?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LINE:CURREnt?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LINE:COUNt?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LINE:RATE?

Injection

Mode Manual

- Defect

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE?

- Amount

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMount

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMount?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMount

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMount?

- Inject

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:INJect

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:INJect

Mode Rate/Max Rate

- Mode

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous?

- Defect

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE?

SCPI Command List - Results

Alarms/Errors

- Rate

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:RATE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:RATE?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE?

- Inject

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?

Mode Continuous

- Defect

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE?

- Inject

Section/RS

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion?

Line/MS

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE?

STS-x / AU-x**Alarms**

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:CURREnt?

Errors

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:CURREnt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:COUNt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:RATE?

Injection**Mode Manual****- Defect**

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH?

SyncE

Alarms

:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ALARm:CURRent?
:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ALARm:HISTory?
:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ALARm:SEConds?

Verdict

:FETCh:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?
:FETCh:DATA:TELEcom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?

TCM (SONET/SDH)

Alarms

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:CURREnt?

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:CURREnt?

Errors

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:CURREnt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:COUNt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:RATE?

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:HISTory?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:CURREnt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:COUNt?
:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:RATE?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:MANual:AMount
:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:MANual:AMount?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:MANual:AMount
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:MANual:AMount?

SCPI Command List - Results

Alarms/Errors

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:INJect

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated?

Mode Continuous

- Defect

```
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TYPE?
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TYPE?
```

- Inject

```
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM
:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM?
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM?
```

Transcoding

Alarms

```
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:CURREnt?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds?
```

Errors

```
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:CURREnt?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:COUNt?
:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:RATE?
```

- Per Lane

```
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:CURREnt?
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE?
```

- Total

```
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE:TOTal?
```

SCPI Command List - Results

Alarms/Errors

Injection

Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:LANE
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:LANE?
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:ALANes
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:ALANes?

Mode Manual

- Defect

Global

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:TYPE
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMount
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMount?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMount
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMount?

- Inject

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect
Per Lane
:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuo
us

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuo
us?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?

Per Lane

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated?

TX (DCO)

Alarms

Note: Not supported yet.

SCPI Command List - Results

Alarms/Errors

VT/TU

Alarms

:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOP:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOP:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOP:PATH:CURREnt?

:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOPTu:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOPTu:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSONet:ALARm:LOPTu:PATH:CURREnt?

Errors

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOP:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOP:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOP:PATH:CURREnt?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOP:PATH:COUNt?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOP:PATH:RATE?

:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOPTu:PATH:HISTory?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOPTu:PATH:SEConds?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOPTu:PATH:CURREnt?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOPTu:PATH:COUNt?
:FETCh:DATA:TELEcom:SDHSONet:ERRor:LOPTu:PATH:RATE?

Injection

Mode Manual**- Defect**

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?

- Amount

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AMount
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AMount?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AMount
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AMount?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:INJect
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:INJect

SCPI Command List - Results

Alarms/Errors

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTInuous
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTInuous?

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated?
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated
:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:TYPE?
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:TYPE
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:TYPE?

- Inject

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH?
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH
:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH?

WIS

Alarms

:FETCh:DATA:TELEcom:ETHernet:ALARm:WIS:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ALARm:WIS:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ALARm:WIS:SEConds?

PLM-P/UNEQ-P

:SOURce:DATA:TELEcom:ETHernet:WIS:PLMuneq
:SOURce:DATA:TELEcom:ETHernet:WIS:PLMuneq?

Errors

:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:COUNT?
:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:RATE?
:FETCh:DATA:TELEcom:ETHernet:WIS:ALARm:LINK?

FEC Statistics

Symbol Error per Correctable Codeword

:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:CORReactable:PERCent?
:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:CORReactable?

Other Statistics

Error-free Codeword

:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:EFRee:PERCent?
:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:EFRee?

Uncorrectable Codeword

:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

FTFL/PT

FTFL

Fault Indication

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Code

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?

Operator Identifier

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Operator Specific

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific?

PT

Channel selection for Multi-Channel OTN

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel?

Payload Type

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?

Code

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODE:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODE:RECeived?

Copy RX / Global Copy RX

:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPYrx

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPYrx

GFP-F/GFP-T

Transport Layer

Bandwidth Usage

:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?

:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:RX?

Mapping Efficiency

:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?

:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

Frame Type

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

SCPI Command List - Results

Labels

RX Mismatch

EXI, UPI, CID

:SENSe:DATA:TELEcom:GFP:FRAMe:MISMatch:COUNt?

PFI

:FETCh:DATA:TELEcom:GFP:CHANnel:MISMatch:COUNt?

Superblock

:FETCh:DATA:TELEcom:GFP:SUPERblock:COUNt:TX?

:FETCh:DATA:TELEcom:GFP:SUPERblock:RATE:TX?

:FETCh:DATA:TELEcom:GFP:SUPERblock:COUNt:RX?

:FETCh:DATA:TELEcom:GFP:SUPERblock:RATE:RX?

Labels

STS/AU Path (C2)

:FETCh:DATA:TELEcom:SDHSonet:HOP:PATH:LABel?

VT/TU Path (V5)

:FETCh:DATA:TELEcom:SDHSonet:LOP:PATH:LABel?

TU-3 Path (V5)

:FETCh:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel?

Link OAM

Remote MAC Address

:FETCh:DATA:TELEcom:LOAM:REMote:MAC?

Remote OAM Information

:FETCh:DATA:TELEcom:LOAM:REMote:OAMInfo?

Remote Error Event Statistics

Symbol Period

:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:SPERiod?

Frame

:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:FRAME?

Frame Period

:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:FPERiod?

Frame Seconds

:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:FSECond?

Inject Errored Frames

:SOURce:DATA:TELEcom:LOAM:ERRor:FRAME:INJect

Logger and Alarms/Errors Logger

:FETCh:DATA:TELEcom:LOGGer:EVENTs?

:FETCh:DATA:TELEcom:LOGGer:LIST?

Messages

Message Type

:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:TXCount?

:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:RXCount?

RX Frame Clock Burst Details

:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:C[1..n]?

:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:SFN?

Measurements - DCO BERT

Note: Only some SCPI commands are supported.

RX Power (dBm)

RX Power (dBm)

:SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?

Optical Metrics

Note: Only available for CD, CFO, DGD, and OSNR.

:FETCh:DATA:TELecom:DCO:OPTical:METRics:RX?

MPLS

Label 1/2

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:TX?

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX?

Total TX/RX MPLS

Ethernet BW

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:BANDwidth?

Frame Rate

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?

Line Utilization

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILization?

Frame Count

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNt?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNt?

OTL-SDT

:FETCh:DATA:TELEcom:OTL:SDT:STATistics?

Defect

:FETCh:DATA:TELEcom:OTL:SDT:DEFect?

Longest

:FETCh:DATA:TELEcom:OTL:SDT:LONGest?

Shortest

:FETCh:DATA:TELEcom:OTL:SDT:SHORTest?

Last

:FETCh:DATA:TELEcom:OTL:SDT:LAST?

Average

:FETCh:DATA:TELEcom:OTL:SDT:AVERage?

Total

:FETCh:DATA:TELEcom:OTL:SDT:TOTal?

Count

:FETCh:DATA:TELEcom:OTL:SDT:COUNt?

Longest Disruption

:FETCh:DATA:TELEcom:OTL:SDT:LONGest:DISRruption:DURation?

:FETCh:DATA:TELEcom:OTL:SDT:LONGest:DISRruption:LANE?

Lanes with Disruption

:FETCh:DATA:TELEcom:OTL:SDT:LANE:DISRruption?

Performance Monitoring

BERT

:FETCh:DATA:TELEcom:PATtern:PM:STATistics?

Section/RS

:FETCh:DATA:TELEcom:SONet:SECTion:PM:STATistics?

Line/MS

:FETCh:DATA:TELEcom:SONet:LINE:PM:STATistics?

STS-n/AU-n

:FETCh:DATA:TELEcom:SDHSonet:HOP:PM:STATistics?

VTn/TU-n

:FETCh:DATA:TELEcom:SDHSonet:LOP:PM:STATistics?

TU-3

:FETCh:DATA:TELEcom:SDHSonet:LOPTu:PM:STATistics?

DS3/DS1

:FETCh:DATA:TELEcom:DSN:DS[1..n]:PM:STATistics?

E4/E3/E2/E1

:FETCh:DATA:TELEcom:PDH:E[1..n]:PM:STATistics?

PTP Stats

Count/Rate - TX

Signaling Announce Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?

Signaling Sync Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?

Signaling Delay Resp Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DELAy:REQuest:RESPOnse:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DELAy:REQuest:RESPOnse:RATE?

Delay Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DELAy:REQuest:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DELAy:REQuest:RATE?

Total

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:TOTAl:COUNt?

Count/Rate - RX

Signaling Announce Grant

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

Signaling Sync Grant

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?

Signaling Delay Resp Grant

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELAy:RESPOnse:GRANt:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELAy:RESPOnse:GRANt:RATE?

SCPI Command List - Results

PTP Stats

Delay Resp

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELAy:RESPOnse:COUnT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELAy:RESPOnse:RATE?

Sync

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:COUnT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:RATE?

Follow Up

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:FOLLOwup:COUnT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:FOLLOwup:RATE?

Announce

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:COUnT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:RATE?

Total

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTAl:COUnT?

IPDV

Current

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:CURREnt?

Average

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:AVERAge?

Minimum

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:MINimum?

Maximum

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:MAXimum?

Standard Deviation

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:STDDev?

Verdict

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:MAXimum:VERDict?

Quality Level (1588 PTP)

Last QL Received

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:LAST:RECeived?

Last Change

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:LAST:CHANge?

QL Mismatch Monitoring

:SOURce:DATA:TELeom:PACKetsync:PTP:QL:MISMatch:ENABled

:SOURce:DATA:TELeom:PACKetsync:PTP:QL:MISMatch:ENABled?

Expected QL

:SOURce:DATA:TELeom:PACKetsync:PTP:QL:EXPeCted

:SOURce:DATA:TELeom:PACKetsync:PTP:QL:EXPeCted?

Count

QL

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:MESSege:COUNT?

Other

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:OTHer?

Total

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:TOTAL?

Quality Level (SyncE)

Generated QL

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?

Last Change

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?

Last QL Received

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Last Change

-.:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

QL Mismatch Monitoring

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:QLMismatch

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:QLMismatch?

Expected QL

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql

:SOURce:DATA:TELEcom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql?

QL Mismatch Frame Count

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?

QL

Information

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Event

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENT?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENT?

S-OAM and MPLS-TP OAM

Loopback

Status

:FETCh:DATA:TELecom:SOAM:LOOPback:STATus?

Verdict

:FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERDict?

TX LBM

:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNt?

RX LBR

:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNt?

LBR Timeout

:FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMEout:COUNt?

Invalid LBR

:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:LBR:COUNt?

Invalid Payload

:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:PAYLoad:COUNt?

SCPI Command List - Results

S-OAM and MPLS-TP OAM

Successful

:FETCh:DATA:TELEcom:SOAM:LOOPback:SUCCEssful:COUNt?

Failed

:FETCh:DATA:TELEcom:SOAM:LOOPback:FAILEd:COUNt?

Failed Count Verdict

:FETCh:DATA:TELEcom:SOAM:LOOPback:FAILEd:COUNt:VERDICT?

Test

Status

:FETCh:DATA:TELEcom:SOAM:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:SOAM:TEST:STATus:VERDICT?

TX TST

:FETCh:DATA:TELEcom:SOAM:TEST:TX:TST:COUNt?

RX TST

:FETCh:DATA:TELEcom:SOAM:TEST:RX:TST:COUNt?

Invalid TST

:FETCh:DATA:TELEcom:SOAM:TEST:INValid:TST:COUNt?

Invalid Payload

:FETCh:DATA:TELEcom:SOAM:TEST:INValid:PAYLoad:COUNt?

Successful

:FETCh:DATA:TELEcom:SOAM:TEST:SUCCEssful:COUNt?

Failed

:FETCh:DATA:TELEcom:SOAM:TEST:FAILEd:COUNt?

Failed Verdict

:FETCh:DATA:TELEcom:SOAM:TEST:FAILEd:COUNt:VERDICT?

Frame Delay

Status

:FETCh:DATA:TELEcom:SOAM:FDElay:STATus?

Verdict

:FETCh:DATA:TELEcom:SOAM:FDElay:STATus:VERDict?

TX DMM

:FETCh:DATA:TELEcom:SOAM:FDElay:TX:DMM:COUnT?

RX DMR

:FETCh:DATA:TELEcom:SOAM:FDElay:RX:DMR:COUnT?

Invalid DMR

:FETCh:DATA:TELEcom:SOAM:FDElay:INValid:DMR:COUnT?

Successful

:FETCh:DATA:TELEcom:SOAM:FDElay:SUCCEssful:COUnT?

Failed

:FETCh:DATA:TELEcom:SOAM:FDElay:FAILED:COUnT?

Verdict

:FETCh:DATA:TELEcom:SOAM:FDElay:FAILED:COUnT:VERDict?

Current

:FETCh:DATA:TELEcom:SOAM:FDElay:CURRent:DElay?

Minimum

:FETCh:DATA:TELEcom:SOAM:FDElay:MINimum:DElay?

Maximum

:FETCh:DATA:TELEcom:SOAM:FDElay:MAXimum:DElay?

Verdict

:FETCh:DATA:TELEcom:SOAM:FDElay:MAXimum:DElay:VERDict?

Average

:FETCh:DATA:TELEcom:SOAM:FDElay:AVErAge:DElay?

SCPI Command List - Results

S-OAM and MPLS-TP OAM

Frame Loss

Status

:FETCh:DATA:TELEcom:SOAM:FLOSS:STATus?

Verdict

:FETCh:DATA:TELEcom:SOAM:FLOSS:STATus:VERDict?

TX LMM

:FETCh:DATA:TELEcom:SOAM:FLOSS:TX:LMM:COUNT?

RX LMR

:FETCh:DATA:TELEcom:SOAM:FLOSS:RX:LMR:COUNT?

Invalid LMR

:FETCh:DATA:TELEcom:SOAM:FLOSS:INValid:LMR:COUNT?

Successful

:FETCh:DATA:TELEcom:SOAM:FLOSS:SUCCEssful:COUNT?

Failed

:FETCh:DATA:TELEcom:SOAM:FLOSS:FAILED:COUNT?

Verdict

:FETCh:DATA:TELEcom:SOAM:FLOSS:FAILED:COUNT:VERDict?

Frame Loss Count

:FETCh:DATA:TELEcom:SOAM:FLOSS:COUNT?

Frame Loss %

:FETCh:DATA:TELEcom:SOAM:FLOSS:PERCent?

:FETCh:DATA:TELEcom:SOAM:FLOSS:PERCent:VERDict?

Synthetic Loss

Status

:FETCh:DATA:TELEcom:SOAM:SLOSS:STATus?

Verdict

:FETCh:DATA:TELEcom:SOAM:SLOSS:STATus:VERDict?

TX SLM

:FETCh:DATA:TELEcom:SOAM:SLOSs:TX:SLM:COUNT?

RX SLR

:FETCh:DATA:TELEcom:SOAM:SLOSs:RX:SLR:COUNT?

Invalid SLR

:FETCh:DATA:TELEcom:SOAM:SLOSs:INValid:SLR:COUNT?

Successful

:FETCh:DATA:TELEcom:SOAM:SLOSs:SUCcessful:COUNT?

Failed

:FETCh:DATA:TELEcom:SOAM:SLOSs:FAILED:COUNT?

:FETCh:DATA:TELEcom:SOAM:SLOSs:FAILED:COUNT:VERDict?

Synthetic Loss Count

:FETCh:DATA:TELEcom:SOAM:SLOSs:COUNT?

Synthetic Loss %

:FETCh:DATA:TELEcom:SOAM:SLOSs:PERCent?

:FETCh:DATA:TELEcom:SOAM:SLOSs:PERCent:VERDict?

SDT (Multi-Channel OTN)

Channels with Disruptions

:FETCh:DATA:TELEcom:SDT:CHDisruption?

Channels Monitored

:FETCh:DATA:TELEcom:SDT:CHMonitored?

Channels Above Threshold

:FETCh:DATA:TELEcom:SDT:CHAThreshold?

Longest Disruption Duration

:FETCh:DATA:TELEcom:SDT:LOTImestamp?

Longest Disruption Channel

:FETCh:DATA:TELEcom:SDT:LOCHannel?

SCPI Command List - Results

SDT (Multi-Channel OTN)

Last Disruption Duration

:FETCh:DATA:TELEcom:SDT:LATImestamp?

Last Disruption Channel

:FETCh:DATA:TELEcom:SDT:LACHannel?

SDT Threshold

:SENSe:DATA:TELEcom:SDT:THReshold

:SENSe:DATA:TELEcom:SDT:THReshold?

Table

- Longest

:FETCh:DATA:TELEcom:SDT:LONGest?

- Shortest

:FETCh:DATA:TELEcom:SDT:SHORTest?

- Last

:FETCh:DATA:TELEcom:SDT:LAST?

- Average

:FETCh:DATA:TELEcom:SDT:AVERAge?

- Total

:FETCh:DATA:TELEcom:SDT:TOTAL?

- Count

:FETCh:DATA:TELEcom:SDT:COUNt?

- PASS/FAIL

:FETCh:DATA:TELEcom:SDT:VERDict?

Service Configuration - Burst

Committed CBS / Excess EBS

Frame Loss

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSS?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSS:VERDict?

Max Jitter

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Round-Trip Latency

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

Average RX Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict?

Service Configuration Test - Ramp

Committed Steps

TX Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Frame Loss Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:FLOSSs?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:FLOSSs:VERDict?

Max Jitter

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Round-Trip Latency

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Average RX Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict?

Service Performance

SLA Parameters

CIR

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Max Jitter, Round-trip Latency, Frame Loss Rate

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue?

Metrics

RX Rate

:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:CURRENT?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:CURRENT:VERDict?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:AVERAge:VERDict?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MAXimum?

Jitter

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:CURRENT?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:ESTimate?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Latency

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:CURRENT?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict?

SCPI Command List - Results

Streams - Frame Loss/Out-ofSequence

Frame Loss and Out-of-Sequence

- Global

:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:CURRent?

- Per Stream

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

- Dual Port

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:RATE?

Verdict

:FETCh:DATA:TELEcom:ETHernet:STReam:FLOSS:VERDict?
:FETCh:DATA:TELEcom:ETHernet:STReam:OOSequence:VERDict?

Streams - Frame Loss/Out-ofSequence

- Per Stream

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

Verdict

:FETCh:DATA:TELEcom:ETHernet:STReam:FLOSS:VERDict?
:FETCh:DATA:TELEcom:ETHernet:STReam:OOSequence:VERDict?

Streams - Jitter

Jitter

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:CURRent?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:AVErAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:ESTimate?

Verdict

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Streams - Latency

Latency

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVErAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict?

Streams- Throughput

RX Rate

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE?
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS?

Total

:SOURce:DATA:TELEcom:ETHernet:ENABled:BANDwidth?

SCPI Command List - Results

Streams- Throughput

RX Rate

Current

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent?

Verdict

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:VERDict?

Total

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?

Average

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:AVERage?

VerdictMinimum

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:AVERage:VERDict?

Minimum

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MINimum?

Maximum

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MAXimum?

Summary / Client Summary

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALendar:CONFig?

BER

Alarms

:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:CURREnt?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds?

:FETCh:DATA:TELEcom:PATtern:ERRor:COUnT?

:FETCh:DATA:TELEcom:PATtern:ERRor:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:CURREnt?

Verdict

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

BER (Unframed) for parallel interfaces

Lane - BER Layer

:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE
:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE?
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes?

Lane - Interface Layer

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes?

Verdict

:FETCh:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict?

Alarms - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

Alarms - Continuous - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm?

Error - Manual - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:TYPE?

Error - Manual - Amount

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:AMOUNT
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:AMOUNT?

Error - Manual - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:INJect

Error - Rate/Max Rate - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:TYPE?

Error - Rate

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE?

Error - Max Rate - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTinuous?

Error - Rate - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated?

Service Disruption**Disruption Time**

:FETCh:DATA:TELEcom:SDT:LONGest?
:FETCh:DATA:TELEcom:SDT:SHORTest?
:FETCh:DATA:TELEcom:SDT:LAST?
:FETCh:DATA:TELEcom:SDT:AVERage?
:FETCh:DATA:TELEcom:SDT:TOTAL?

OTL

:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:LONGest?
:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:SHORTest?
:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:LAST?
:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:AVERage?
:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:TOTAL?

Disruption Count

:FETCh:DATA:TELEcom:SDT:COUNt?

OTL

:FETCh:DATA:TELEcom:OTL:SUMMARY:SDT:COUNt?

Defect

:FETCh:DATA:TELEcom:SDT:DEFect?

Verdict

:FETCh:DATA:TELEcom:SDT:VERDict?

SCPI Command List - Results

Summary / Client Summary

CPRI

Count TX

:FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

Count RX

:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

Ethernet

:SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?

HDLC

:SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?

Protocol

:SENSe:DATA:TELecom:CPRI:SUMMary:PROTOcol:VERSion?

Sequence

:SENSe:DATA:TELecom:CPRI:SUMMary:SState?

Frame Sync

:SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?

Verdict

:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?

OBSAI

Sync / TX / RX

:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LAST?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmi:t:LAST?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

Count / Code Word / Message Group / Frame table

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount?

RP3 Peer Target Address

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:PTARget?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?

Summary - 1588 PTP (Client)

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

GM Info

Refer to *Grandmaster Information* on page 407.

Quality Level

Last QL Received

:FETCh:DATA:TELEcom:PACKetsync:PTP:QL:LAST:RECeived?

Last Change

:FETCh:DATA:TELEcom:PACKetsync:PTP:QL:LAST:CHANGe?

Verdict

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:VERDict?

Summary - 1588 PTP (GM)

Test Status

:FETCH:DATA:TELEcom:TEST:STATUS?

Verdict

:FETCH:DATA:TELEcom:TEST:STATUS:VERDict?

Start Time

:FETCH:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCH:DATA:TELEcom:TEST:POWER:RECOvery:COUnT?

PTP Session

Link Status

:FETCH:DATA:TELEcom:PACKetsync:PTP:STATUS?

Denied Session Count

:FETCH:DATA:TELEcom:PACKetsync:PTP:TX:DENied:COUNT?

Message Impairment

:SOURCE:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE

:SOURCE:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE?

Interrupt

:SOURCE:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt

:SOURCE:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt?

Client Info

MAC Address

:FETCH:DATA:TELEcom:PACKetsync:PTP:CINFo:MADDDress?

IPv4 Address

:FETCH:DATA:TELEcom:PACKetsync:PTP:CINFo:IP?

Clock Identity

:FETCH:DATA:TELEcom:PACKetsync:PTP:CINFo:CIDentity?

Port Number

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:PNUMber?

Domain

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:DOMain?

Mechanism

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:MECHanism?

Lease Duration (Unicast)

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:LDURation?

Message Rate (Unicast):**Announce**

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:ANNounce:RATE?

Sync

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:SYNC:RATE?

Delay Req.

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:DREQuest:RATE?

PTP Stats**Count/Rate - TX****Signaling Announce Grant**

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:GRANT:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:GRANT:RATE?

Signaling Sync Grant

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:GRANT:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:GRANT:RATE?

Signaling Delay Resp Grant

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DElay:RESPonse:GRANT:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DElay:RESPonse:GRANT:RATE?

Delay Resp

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DElay:RESP:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DElay:RESP:RATE?

SCPI Command List - Results

Summary - 1588 PTP (GM)

Sync

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:RATE?

Follow Up

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:FOLL:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:FOLL:RATE?

Announce

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:ANNounce:RATE?

Total

:FETCh:DATA:TELEcom:PACKetsync:PTP:TX:TOTal:COUN?

Count/Rate - RX

Signaling Announce Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:REQuest:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:REQuest:RATE?

Signaling Sync Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:REQuest:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:REQuest:RATE?

Signaling Delay Resp Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DElay:REQuest:RESPonse:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DElay:REQuest:RESPonse:RATE?

Delay Req

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DElay:REQ:COUN?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DElay:REQ:RATE?

Total

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUN?

Summary - Cable Test

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Cable

Wire Map

:FETCh:DATA:TELEcom:CABLetest:WIRemap:RESult?

Prop. Delay

:FETCh:DATA:TELEcom:CABLetest:PROPdelay:RESult?

Delay Skew

:FETCh:DATA:TELEcom:CABLetest:DELAyskew:RESult?

Length

:FETCh:DATA:TELEcom:CABLetest:LENGth:RESult?

SCPI Command List - Results

Summary - Cable Test

Pairs

Verdict

:FETCh:DATA:TELEcom:CABLeTest:PAIR:THReshold?

Wire Map Test Results

:FETCh:DATA:TELEcom:CABLeTest:WIRemap:PAIRresult?

Prop. Delay

:FETCh:DATA:TELEcom:CABLeTest:PROPdelay:PAIRresult?

Distance to Fault

:FETCh:DATA:TELEcom:CABLeTest:DELayskew:PAIRresult?

Length

:FETCh:DATA:TELEcom:CABLeTest:LENGth:PAIRresult?

Verdict

:FETCh:DATA:TELEcom:CABLeTest:THReshold?

Summary - CPRI/OBSAI BERT

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Verdict

:FETCh:DATA:TELeom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUn?

CPRI

Count TX

:FETCh:DATA:TELeom:CPRI:SUMMary:TX:COUnTer?

Count RX

:FETCh:DATA:TELeom:CPRI:SUMMary:RX:COUnTer?

Ethernet

:SENSe:DATA:TELeom:CPRI:SUMMary:ETHernet:RATE?

HDLC

:SENSe:DATA:TELeom:CPRI:SUMMary:HDLC:RATE?

Protocol

:SENSe:DATA:TELeom:CPRI:SUMMary:PROTOcol:VERSion?

Sequence

:SENSe:DATA:TELeom:CPRI:SUMMary:SState?

Frame Sync

:SENSe:DATA:TELeom:CPRI:SUMMary:FSYNc:STATus?

Verdict

:FETCh:DATA:TELeom:CPRI:SUMMary:VERDict?

SCPI Command List - Results

Summary - CPRI/OBSAI BERT

OBSAI

Sync / TX / RX

:FETCh:DATA:TELEcom:CPRI:OBSai:LINK:LAST?

:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:TRANsmit:LAST?

:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:RECeive:LAST?

Count / Code Word / Message Group / Frame table

:FETCh:DATA:TELEcom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELEcom:CPRI:OBSai:SUMMary:TXCount?

RP3 Peer Target Address

:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:LAST:PTARget?

:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:LAST:STATus?

BER

Alarms

:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:CURREnt?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds?

:FETCh:DATA:TELEcom:PATtern:ERRor:COUNt?

:FETCh:DATA:TELEcom:PATtern:ERRor:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:CURREnt?

Verdict

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

Service Disruption

Disruption Time

:FETCh:DATA:TELEcom:SDT:LONGest?

:FETCh:DATA:TELEcom:SDT:SHORtest?

:FETCh:DATA:TELEcom:SDT:LAST?

:FETCh:DATA:TELEcom:SDT:AVERAge?

:FETCh:DATA:TELEcom:SDT:TOTAl?

Disruption Count

:FETCh:DATA:TELEcom:SDT:COUnT?

Verdict

:FETCh:DATA:TELEcom:SDT:VERDict?

Summary - DCO BERT

Note: *Only some SCPI commands are supported.*

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:STARt:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

SCPI Command List - Results

Summary - EtherBERT

BER

Alarms

:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds?
:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory?
:FETCh:DATA:TELEcom:PATtern:ALARm:CURREnt?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds?
:FETCh:DATA:TELEcom:PATtern:ERRor:COUNt?
:FETCh:DATA:TELEcom:PATtern:ERRor:RATE?
:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory?
:FETCh:DATA:TELEcom:PATtern:ERRor:CURREnt?

Verdict

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

Summary - EtherBERT

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier
:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALendar:CONFig?

LINK

:SOURce:DATA:TELEcom:LINK

:SOURce:DATA:TELEcom:LINK

BER**Alarms**

:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:CURRent?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds?

:FETCh:DATA:TELEcom:PATtern:ERRor:COUNt?

:FETCh:DATA:TELEcom:PATtern:ERRor:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:CURRent?

Verdict

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

BER (Unframed) for parallel interfaces**Lane - BER Layer**

:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE

:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes?

SCPI Command List - Results

Summary - EtherBERT

Lane - Interface Layer

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes?

Verdict

:FETCh:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict?

Alarms - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

Alarms - Continuous - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm?

Error - Manual - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:TYPE?

Error - Manual - Amount

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:AMOUNT
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:AMOUNT?

Error - Manual - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:MANual:INJECT

Error - Rate/Max Rate - Defect

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:TYPE?

Error - Rate

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE?

Error - Max Rate - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTinuous?

Error - Rate - Inject

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated
:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated?

Service Disruption

Disruption Time

:FETCh:DATA:TELEcom:SDT:LONGest?

:FETCh:DATA:TELEcom:SDT:SHORTest?

:FETCh:DATA:TELEcom:SDT:LAST?

:FETCh:DATA:TELEcom:SDT:AVERage?

:FETCh:DATA:TELEcom:SDT:TOTal?

OTL

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:LONGest?

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:SHORTest?

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:LAST?

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:AVERage?

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:TOTal?

Disruption Count

:FETCh:DATA:TELEcom:SDT:COUNt?

OTL

:FETCh:DATA:TELEcom:OTL:SUMMary:SDT:COUNt?

Defect

:FETCh:DATA:TELEcom:SDT:DEFect?

Verdict

:FETCh:DATA:TELEcom:SDT:VERDict?

Latency

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:CURRent?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVERage?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict?

Summary - EtherSAM

Service Configuration Test

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SPRTest:VERDict?

Service Performance Test

:FETCh:DATA:TELEcom:ETHernet:ESAM:TESTs:STATus?

:FETCh:DATA:TELEcom:ETHernet:ESAM:TESTs:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Service Configuration Test

VLAN Preservation

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:VLAN:PREServ?

Frame Loss Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOSS?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOSS:VERDict?

Max Jitter

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

Max Latency

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MLATency?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict?

Max RX Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict?

Service Performance Test

VLAN Preservation

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SERVices:VLAN:PREServ?

Frame Loss Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:FLOSSs?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:FLOSSs:VERDict?

Max Jitter

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:MAXJitter:VERDict?

Max Latency

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:MLATency?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:MLATency:VERDict?

Average RX Rate

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:ARXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:ARXRate:VERDict?

Summary - FC BERT

Test Status

:FETCh:DATA:TELecon:TEST:STATus?

Verdict

:FETCh:DATA:TELecon:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELecon:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELecon:TEST:POWer:RECOvery:COUn?

Service Disruption

Disruption Time

:FETCh:DATA:TELecon:SDT:LONGest?

:FETCh:DATA:TELecon:SDT:SHORtest?

:FETCh:DATA:TELecon:SDT:LAST?

:FETCh:DATA:TELecon:SDT:AVERAge?

:FETCh:DATA:TELecon:SDT:TOTAl?

Disruption Count

:FETCh:DATA:TELecon:SDT:COUn?

SDT Threshold

:SENSe:DATA:TELecon:SDT:THReshold

:SENSe:DATA:TELecon:SDT:THReshold?

Verdict

:FETCh:DATA:TELecon:SDT:VERDict?

Round-Trip Latency

Round-Trip Latency

:FETCh:DATA:TELEcom:FIBer:RTLatency:LAST?

:FETCh:DATA:TELEcom:FIBer:RTLatency:AVERAge?

:FETCh:DATA:TELEcom:FIBer:RTLatency:MINimum?

:FETCh:DATA:TELEcom:FIBer:RTLatency:MAXimum?

:FETCh:DATA:TELEcom:FIBer:RTLatency:SAMPles?

:FETCh:DATA:TELEcom:FIBer:RTLatency:THReshold:VERDict?

Estimated BB_Credit

:FETCh:DATA:TELEcom:FIBer:STReam:ESTimated:BBCredit?

Traffic

Line Utilization

:FETCh:DATA:TELEcom:FIBer:STReam:LINE:UTILization?

Frame Rate

:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:RATE?

Byte Count

:FETCh:DATA:TELEcom:FIBer:STReam:BYTE:COUNt?

Frame Count

:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:COUNt?

Summary - FlexE BERT

Test Status

:FETCh:DATA:TELecom:TEST:STATUs?

Start Time

:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWeR:RECOvery:COUnT?

FlexE Clients

Verdict

:FETCh:DATA:TELecom:FETHernet:CLient:THReshold:VERDict?

Client ID

:SOURce:DATA:TELecom:FETHernet:CLient:IDentifier

:SOURce:DATA:TELecom:FETHernet:CLient:IDentifier?

Size

:SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:ACLient

Link Alarm

:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:CURRent?

TX Rate

:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE?

RX Rate

:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE?

RX Frame Count

:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUnT?

Bit Error Rate

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:RATE?

Bit Error Count

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:COUnT?

Path OAM Client

Verdict

:FETCh:DATA:TELeom:FETHernet:POAM:THReshold:VERDict?

Client ID

:SOURce:DATA:TELeom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELeom:FETHernet:CLlent:IDentifier?

CC Status

:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:RX:CCStatus?

CV Status

:FETCh:DATA:TELeom:FETHernet:POAM:CVER:RX:CVStatus?

CS Type Status

:FETCh:DATA:TELeom:FETHernet:POAM:CSIG:RX:CSStatus?

Max Delay

:FETCh:DATA:TELeom:FETHernet:POAM:DELay:RX:MAXimum?

Summary - FlexE BERT - Client Summary

Test Status

:FETCh:DATA:TELecom:TEST:STATUs?

Start Time

:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWeR:RECOvery:COUnT?

BER

Alarms

:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:HISTory?

:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:CURREnt?

Errors

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:SEConds?

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:COUnT?

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:RATE?

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:HISTory?

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:CURREnt?

BER Threshold

:SENSe:DATA:TELecom:PATtern:THReshold:RATE

:SENSe:DATA:TELecom:PATtern:THReshold:RATE?

:SENSe:DATA:TELecom:PATtern:THReshold:COUnT

:SENSe:DATA:TELecom:PATtern:THReshold:COUnT?

Verdict

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

Summary - FlexE BERT - Path OAM

Test Status

:FETCh:DATA:TELecom:TEST:STATus?

Verdict

:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?

Start Time

:FETCh:DATA:TELecom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUn?

Basic OAM

CC Status

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCStatus?

Alarms/Errors

Path OAM on page 244.

TX BAS

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUn?

RX BAS

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUn?

SCPI Command List - Results

Summary - FlexE BERT - Path OAM

CS Type

Status

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:RX:CSStatus?

TX CSM

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:TX:CSMessage:COUNt?

RX CSM

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?

CS Type

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:TYPE:REC?

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPected

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPected?

Delay Measurement

Status

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:TX:DStatus?

TX 2DMM

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:TX:DMM:COUNt?

RX 2DMR

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:RX:DMR:COUNt?

Delay

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:RX:LAST?

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:RX:MAXimum?

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:RX:MINimum?

:FETCh:DATA:TELEcom:FETHernet:POAM:DELaY:RX:AVERAge?

Connectivity Verification

Status

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:RX:CVStatus?

TX CVM

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:TX:CVM:COUNt?

RX CVM

:FETCh:DATA:TELeom:FETHernet:POAM:CVER:RX:CVM:COUNT?

SAPI

:FETCh:DATA:TELeom:FETHernet:POAM:CVER:SAPI:RECeived?

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted?

DAPI

:FETCh:DATA:TELeom:FETHernet:POAM:CVER:DAPI:RECeived?

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted?

Summary - FlexO BERT

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUnT?

FlexO Group Graphical Representation

Skew (ns)

:FETCh:DATA:TELeom:FOTN:INSTance:SKEW:RX?

Note: For Alarms/Errors see FlexO Group / OTUC Frame on page 213 and OTUx/OTUCn/OTUC Frame on page 240.

SCPI Command List - Results

Summary - FlexO BERT

BER

Alarms

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:CURREnt?

Errors

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:SEConds?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:COUNt?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:CURREnt?

BER Threshold

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

Verdict

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?

Inject

See *BER* on page 194.

Summary - iOptics

Start Time

:FETCh:DATA:TELEcom:TEST:StArT:TIME?

Test Status (displayed next to **Start Time**)

:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEST:STATus?

Sub-Test Sequence

I/O Interface Quick Check:

:FETCh:DATA:TELEcom:IOPTics:IINterface:QCHeck:TEST:STATus?

:FETCh:DATA:TELEcom:IOPTics:IINterface:QCHeck:TEST:VERDict?

:FETCh:DATA:TELEcom:IOPTics:IINterface:TYPe:VERDict?

:FETCh:DATA:TELEcom:IOPTics:IINterface:PINS:VERDict?

Optical TX Power Test (dBm)

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:STATus?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:VERDict?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum:VERDict?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum:LANE?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum:VERDict:LANE?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MAXimum?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MAXimum:VERDict?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MAXimum:LANE?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MAXimum:VERDict:LANE?

SCPI Command List - Results

Summary - iOptics

Optical RX Power Test (dBm)

:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:STATus?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:VERDict?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MINimum?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MINimum:VERDict?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MINimum:LANE?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MINimum:VERDict:LANE?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MAXimum?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MAXimum:VERDict?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MAXimum:LANE?
:FETCh:DATA:TELEcom:IOPTics:ORX:PTESt:MAXimum:VERDict:LANE?

Bit Error Test

:FETCh:DATA:TELEcom:IOPTics:BERT:STATus?
:FETCh:DATA:TELEcom:IOPTics:BERT:VERDict?
:FETCh:DATA:TELEcom:IOPTics:BERT:COUNt?
:FETCh:DATA:TELEcom:IOPTics:BERT:COUNt:VERDict?
:FETCh:DATA:TELEcom:IOPTics:BERT:ALARm:PLOSS?

Excessive Skew Test

:FETCh:DATA:TELEcom:IOPTics:SKEW:STATus?
:FETCh:DATA:TELEcom:IOPTics:SKEW:VERDict?
:FETCh:DATA:TELEcom:IOPTics:SKEW:MAXimum?
:FETCh:DATA:TELEcom:IOPTics:SKEW:MAXimum:VERDict?

Monitoring

Power Consumption

:FETCh:DATA:TELEcom:IOPTics:MONitoring:POWer:ACTual?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:CURREnt:ACTual?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:CURREnt:MAXimum?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:POWer:VERDict?

Temperature

:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEMPerature:ACTual?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEMPerature:MAXimum?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEMPerature:VERDict?

Summary - Link OAM

Test Status

:FETCh:DATA:TELecom:TEST:STATus?

Verdict

:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELecom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnT?

Alarms

:FETCh:DATA:TELecom:LOAM:ALARm:HISTory?

:FETCh:DATA:TELecom:LOAM:ALARm:CURREnt?

:FETCh:DATA:TELecom:LOAM:ALARm:SEConds?

OAMPDU Frame Count

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX?

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:RX?

Loopback

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCEssful?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILED?

Summary - Multi-Channel OTN

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUnT?

Note: See Alarms/Errors for more information.

Summary - NI/CSU Emulation

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Verdict

:FETCh:DATA:TELeom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Auto-Response Loopback Status

:FETCh:DATA:TELeom:DSN:LOOPback:STATus?

Summary - RFC 2544

Subtest Status

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:TSTate?
:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:TSTate?
:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:TSTate?
:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:TSTate?

Elapsed Time

:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:TETime?
:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:TETime?
:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:TETime?
:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:TETime?

TX Frames

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:FCOut:TX?
:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:FCOut:TX?
:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:FCOut:TX?
:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:FCOut:TX?

RX Frames

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:FCOut:RX?
:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:FCOut:RX?
:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:FCOut:RX?
:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:FCOut:RX?

Trial

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:CTRIal?
:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:CTRIal?
:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:CTRIal?
:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:CTRIal?

Val.

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:VALidation?

Step

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSSs:CSTep?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWEr:RECOvery:COUnT?

Results per frame

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:SMESsage?

:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:SMESsage?

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSS:SMESsage?

:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:SMESsage?

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:TRESults[1..n]?

:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOSS:FRESults[1..n]?

:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:LRESults[1..n]?

Verdict

:FETCh:DATA:TELEcom:ETHernet:RFC:SUMMery:THReshold:VERDict?

:FETCh:DATA:TELEcom:ETHernet:RFC:GLOBal:THReshold:VERDict?

Summary - RFC 6349

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

MTU

:FETCh:DATA:TELEcom:ETHernet:RFC:MTU?

Minimum RTT

:FETCh:DATA:TELEcom:ETHernet:RFC:MINimum:RTT?

Active Connections

:FETCh:DATA:TELEcom:ETHernet:RFC:ACTConnections?

Connection Details

:FETCh:DATA:TELEcom:ETHernet:RFC:CDEtails?

Window Sweep

Actual L4

:FETCh:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep:ACTUal:L?

Verdict

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:ACTUal:L:VERDict?

TCP Throughput (RFC 6349 DTS)

Window / Window Boost

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:WINDow?

Ideal L4

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:IDEal:L?

Actual L4

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:ACTUal:L?

TCP Efficiency

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:TCP:EFFiciency?

Buffer Delay

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:BUFFer:DELay?

Recommended Window Boost

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:RWBoost?

Apply and Start

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:RWBoost:APPLY

Threshold

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:THReshold?

TCP Throughput (TCP Throughput DTS)

Current L4

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:CURRent:L?

Current CWND

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:CCWNd?

Current RTT

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:CURRent:RTT?

Ideal L4

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:IDEal:L?

Actual L4

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:ACTUal:L?

Threshold

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:THReshold?

Max CWND

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:MCWNd?

Min RTT

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:MINimum:RTT?

SCPI Command List - Results

Summary - Smart Loopback

Max RTT

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:MAXimum:RTT?

Average RTT

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:AVERage:RTT?

Nb of Connections

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:NOFConn?

TCP Efficiency

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:TCP:EFFiciency?

Summary - Smart Loopback

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

Traffic

Refer to *Traffic - Ethernet* on page 634.

Summary - S-OAM and MPLS-TP OAM

Test Status

:FETCh:DATA:TELecom:TEST:STATus?

Verdict

:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELecom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnT?

Continuity Check (Peer MEP)

Status

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?

TX CCM

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUnT?

RX CCM

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUnT?

MEG ID

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:FORMat?

MEG Level

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel:CCM?

MEP ID

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEP:ID:CCM?

Period

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:PERiod:CCM?

Domain ID

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:FORMat?

SCPI Command List - Results

Summary - S-OAM and MPLS-TP OAM

MA Name

:FETCH:DATA:TELEcom:SOAM:SUMMARY:CCHeck:MA:NAME:CCM?

:FETCH:DATA:TELEcom:SOAM:SUMMARY:CCHeck:MA:NAME:FORMat?

MD Level

:FETCH:DATA:TELEcom:SOAM:SUMMARY:CCHeck:MD:LEVel:CCM?

Loopback / Test / Frame Delay / Frame Loss / Synthetic Loss

RX Line Utilization

:FETCH:DATA:TELEcom:SOAM:SUMMARY:LOOPback:RX:LINE:UTILization?

TST RX Rate

:FETCH:DATA:TELEcom:SOAM:SUMMARY:TEST:RX:TST:RATE?

Summary

Frame Delay

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:FDELaY:MEASurement?

Frame Loss

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:FLOSS:MEASurement?

Synthetic Loss

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:SLOSS:MEASurement?

Loopback

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:LOOPback?

Test

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:TEST?

Frame Delay (Maximum)

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:FDELaY:MAXimum?

Frame Loss Ratio

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:FLOSS:RATio?

Synthetic Loss Ratio

:FETCH:DATA:TELEcom:SOAM:SUMMARY:RESults:SLOSS:RATio?

Summary - SyncE

Test Status

:FETCh:DATA:TELEcom:TEST:STATus?

Verdict

:FETCh:DATA:TELEcom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELEcom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELEcom:TEST:POWer:RECOvery:COUnT?

ESMC

ESMC RX Rate

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXRate?

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:FRAMes:AVErAge?

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?

RX

Last QL Message

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Last Change

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

Information Count

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXINfo?

Event Count

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXEvent:COUnT?

QL Mismatch Frame Count

:SENSe:DATA:TELEcom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUnT?

SCPI Command List - Results

Summary - TCP Throughput

TX

QL Message

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?

Last Change

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANGe?

Information Count

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?

Event Count

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUn?

Summary - TCP Throughput

Test Status

:FETCh:DATA:TELecom:TEST:STATUs?

Verdict

:FETCh:DATA:TELecom:TEST:STATUs:VERDict?

Start Time

:FETCh:DATA:TELecom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELecom:TEST:POWeR:RECOvery:COUn?

TCP Throughput

TCP Connection Status

:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATUs?

Transmitted Frames

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFrames?

Re-Transmitted Frames

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

Efficiency

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?

Throughput Threshold

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum:VERDict?

TCP Throughput

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:LAST?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MINimum?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:AVERage?

Window Size

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:WINDsize:LAST?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:WINDsize:MINimum?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Round Trip Latency

:FETCh:DATA:TELEcom:ETHernet:RTD:TIME:LAST?

:FETCh:DATA:TELEcom:ETHernet:RTD:TIME:MINimum?

:FETCh:DATA:TELEcom:ETHernet:RTD:TIME:MAXimum?

:FETCh:DATA:TELEcom:ETHernet:RTD:TIME:AVERage?

Summary - Through Mode

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Verdict

:FETCh:DATA:TELeom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUn?

Traffic

Note: Refer to Traffic - Ethernet on page 634.

Summary - Traffic Gen & Mon

Test Status

:FETCh:DATA:TELeom:TEST:STATus?

Verdict

:FETCh:DATA:TELeom:TEST:STATus:VERDict?

Start Time

:FETCh:DATA:TELeom:TEST:START:TIME?

Test/Power Recovery

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUn?

:FETCh:DATA:TELeom:ETHernet:STReam:LATency:STATus:TIME?

Note: See Stream (Summary) for stream statistics.

Traces - OTN

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

SM TTI Traces

SAPI

- Received Message

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?
:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?
:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?

- Expected Message

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted?

- Copy RX

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPIYrx
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPIY
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPIY

DAPI

- Received Message

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?
:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?
:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?

SCPI Command List - Results

Traces - OTN

- Expected Message

```
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted?
```

- Copy RX

```
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:COPIYrx
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPIY
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:DAPI:COPIY
```

Operator Specific

- Received Message

```
:FETCh:DATA:TELEcom:OTN:OTU[1..n]:TTI:OPSPeC:B?
:FETCh:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPeC:B?
:FETCh:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:OPSPeC:B?
```

SAPI/DAPI OTU-TIM

```
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:TIM
:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:TIM?
```

PM TTI Traces

Channel selection for Multi-Channel OTN

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACHAnnel
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACHAnnel?
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CHANnel
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CHANnel?
```

SAPI**- Received Message**

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted?

Copy RX

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:COPIYrx

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPIY

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:F:TTI:SAPI:COPIY

DAPI**- Received Message**

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted?

SCPI Command List - Results

Traces - OTN

- Copy RX

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:COPIR_x

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPI

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:DAPI:COPI

Operator Specific

- Received Message

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:OPSPec:B?

SAPI/DAPI ODU-TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:TIM?

ODU - ODU TCM TTI Traces

SAPI

- Received Message

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted?

- Copy RX

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPIYrx
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:COPIY
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPIY

DAPI**- Received Message**

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted?

- Copy RX

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPIYrx
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPIY
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:COPIY

Operator Specific**- Received Message**

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPeC:B?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:OPSPeC:B?
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPeC:B?

SCPI Command List - Results

Traces - SONET/SDH

SAPI/DAPI TCM-TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Traces - SONET/SDH

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE

:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

Traces

Section/RS (J0)

- Received

:FETCh:DATA:TELEcom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTem:RECeived?

STS/AU Path (J1)

- Received

:FETCh:DATA:TELEcom:SDHSonet:POVerhead:J[1..n]:TIM:PATTem:RECeived?

VT/TU Path (J2) and TU Path (J1)

- Received

:FETCh:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:TIM:PATTem:RECeived?

TIM-S/RS-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM?

- Format

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern
:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B
:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B?

- Copy RX

:SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:COPIrx

TIM-P/HP-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM
:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM?

- Format

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern
:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern:B
:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATtern:B?

- Copy RX

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:COPIrx

SCPI Command List - Results

Traces - SONET/SDH

TIM-V/LP-TIM

- Enable

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM?

- Format

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B?

- Copy RX

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:COpy

TCM Access Point Identifier

STS/AU Path (N1)

- Received

:FETCh:DATA:TELEcom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:EXPeCted

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:EXPeCted?

- Enable

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:TCTim

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:TCTim?

- Copy RX

:SENSe:DATA:TELEcom:SDHSonet:HOP:TCAPident:COpy

VT/TU Path (Z6 or N1 (TU-3))

- Received

:FETCh:DATA:TELEcom:SDHSonet:LOP:TCAPident:N[1..n]:RECeived?

- Expected

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:EXPeCted

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:EXPeCted?

- Enable

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:TCTim

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:TCTim?

- Copy RX

:SENSe:DATA:TELEcom:SDHSonet:LOP:TCAPident:COpy

Traces/PT - FlexO

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE

:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

SM TTI Traces

SAPI

- Received Message

:FETCh:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?

- Copy RX

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:SAPI:COpyRx

DAPI

- Received Message

:FETCh:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:B?

SCPI Command List - Results

Traces/PT - FlexO

- Expected Message

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

- Copy RX

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:COPIYrx

Operator Specific

- Received Message

:FETCh:DATA:TELEcom:OTN:OTU[1..n]:TTI:OPSPec:B?

SAPI/DAPI OTU-TIM

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM?

PM TTI Traces

Client ID selection for ODUk

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CLient

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:CLient?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACLient

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:ACLient?

SAPI

- Received Message

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:B?

- Expected Message

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

Copy RX

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:COPIYrx

DAPI

- Received Message

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:B?

- Expected Message

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?
```

- Copy RX

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:DAPI:COpyRx
```

Operator Specific

- Received Message

```
:FETCh:DATA:TELEcom:OTN:ODU[1..n]:TTI:OPSPeC:B?
```

SAPI/DAPI ODU-TIM

```
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM
:SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM?
```

PT

Client ID selection for ODUk

```
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:CLient
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:CLient?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:ACLient
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:ACLient?
```

Payload Type

```
:FETCh:DATA:TELEcom:OTN:OPU[1..n]:PTYPe:RECeived?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPe
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PTYPe?
```

Code

```
:FETCh:DATA:TELEcom:OTN:OPU[1..n]:PCODE:RECeived?
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PCODE?
```

OPU-PLM

```
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PLM
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:PLM?
```

Copy RX

```
:SENSe:DATA:TELEcom:OTN:OPU[1..n]:COpyRx
```

Traffic - Ethernet

Client ID

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier

:SOURce:DATA:TELEcom:FETHernet:CLlent:IDentifier?

Size

:SOURce:DATA:TELEcom:FETHernet:CLlent:CALendar:CONFig?

Link

:SOURce:DATA:TELEcom:LINK

:SOURce:DATA:TELEcom:LINK

Total TX/RX

Line Utilization

:SENSe:DATA:TELEcom:ETHernet:PACKet:LINE:UTILization?

Ethernet BW

:SENSe:DATA:TELEcom:ETHernet:PACKet:BANDwidth?

Frame Rate

:SENSe:DATA:TELEcom:ETHernet:PACKet:FRAME:RATE?

Frame Count

:SENSe:DATA:TELEcom:ETHernet:PACKet:FRAME:COUNt?

Frame Type

RX Count

:SENSe:DATA:TELEcom:ETHernet:FRAME:COUNt:RX?

TX Count

:SOURce:DATA:TELEcom:ETHernet:FRAME:COUNt:TX?

Frame Size

RX Count

:SENSe:DATA:TELEcom:ETHernet:FSIZE:COUnT?

Total

%

:SENSe:DATA:TELEcom:ETHernet:FSIZE:PERCentage?

Traffic - Flow Control

Frame Count

Pause Frames

:FETCh:DATA:TELEcom:ETHernet:PAUSE:FRAMES?

Abort Frames

:FETCh:DATA:TELEcom:ETHernet:PAUSE:FRAMES:ABORt?

Total Frames

:FETCh:DATA:TELEcom:ETHernet:PAUSE:FRAMES:TX?

:FETCh:DATA:TELEcom:ETHernet:PAUSE:FRAMES:RX?

Pause Time

:FETCh:DATA:TELEcom:ETHernet:PACKet:PAUSE:TIME:RX?

Pause Injection

Packet Pause Time

:SOURce:DATA:TELEcom:ETHernet:PACKet:PAUSE:TIME

:SOURce:DATA:TELEcom:ETHernet:PACKet:PAUSE:TIME?

Inject

:SOURce:DATA:TELEcom:ETHernet:PACKet:PAUSE:INJect

:SOURce:DATA:TELEcom:ETHernet:PACKet:PAUSE:INJect

Destination MAC Address

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRESS:ENABLE

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRESS:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRESS

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRESS?

Traffic - OAM, S-OAM, and MPLS-TP OAM

TX Count

:FETCh:DATA:TELEcom:SOAM:TRAFfic:TX:COUnT?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:TX:TOTal?

RX Count

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RX:COUnT?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RX:TOTal?

Responder

TX Count

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPOnder:TX:COUnT?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPOnder:TX:TOTal?

RX Count

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPOnder:RX:COUnT?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPOnder:RX:TOTal?

Traffic - Path OAM

BAS

:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:TX:CCM:COUNt?

:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:RX:CCM:COUNt?

CVM

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:TX:CVM:COUNt?

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:RX:CVM:COUNt?

APS

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:TX:MESSage:COUNt?

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:RX:MESSage:COUNt?

2DMM

:FETCh:DATA:TELEcom:FETHernet:POAM:DElay:TX:DMM:COUNt?

2DMR

:FETCh:DATA:TELEcom:FETHernet:POAM:DElay:RX:DMR:COUNt?

CSM

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:TX:CSMessage:COUNt?

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?

Responder

2DMR

:FETCh:DATA:TELEcom:FETHernet:POAM:RESPonder:TX:DMR:COUNt?

2DMM

:FETCh:DATA:TELEcom:FETHernet:POAM:RESPonder:RX:DMM:COUNt?

WIS

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELEcom:ControlCHAracter:MODE

:SOURce:DATA:TELEcom:ControlCHAracter:MODE?

Path Signal Label (C2)

:SENSe:DATA:TELEcom:ETHernet:WIS:PATH:LABel?

J0/J1 Trace

:SENSe:DATA:TELEcom:ETHernet:WIS:TRACe?

7 SCPI Command List - Functions

Note: The symbol `||` precedes a parallel interface command when a different command is used for a serial interface.

Note: For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:
`:SOURce:DATA:TELEcom:PORT`

List of Pages

40/100/400G Advanced - CFP4/CFP8/OSFP/QSFP Control on page 355

40/100/400G Advanced - Lanes Mapping & Skew on page 357

APS on page 358

Client Offset on page 360

FDL - Bit-Oriented Message on page 361

FDL - Performance Report Message on page 362

FEAC on page 363

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FlexE Advanced on page 370

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SCPI Command List - Functions

List of Pages

OH BERT on page 370
OH - FlexE on page 378
OH - GFP-F/GFP-T on page 372
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Packet Capture on page 382
Path OAM APS on page 383
Ping & Trace Route on page 385
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RTD on page 391
RTD/RTT (CPRI Framed L2) on page 392

S-OAM Link Trace on page 393
Signaling Bits on page 394
Spare Bits on page 394

Traffic Scan on page 395

40/100/400G Advanced - CFP4/CFP8/OSFP/QSFP Control

Port (FlexE)

:SOURce:DATA:TELEcom:PORT

:SOURce:DATA:TELEcom:PORT?

FlexE PHY Number (FlexE)

:SOURce:DATA:TELEcom:FETHernet:GROup:PNUMBER?

Power Class

:SOURce:DATA:TELEcom:CFP:CPWR?

:SOURce:DATA:TELEcom:OSFP:CPWR?

:SOURce:DATA:TELEcom:QSFP:CPWR?

Control Pins

Check boxes

:SOURce:DATA:TELEcom:CFP:CSETting

:SOURce:DATA:TELEcom:CFP:CSETting?

:SOURce:DATA:TELEcom:OSFP:CSETting

:SOURce:DATA:TELEcom:OSFP:CSETting?

:SOURce:DATA:TELEcom:QSFP:CSETting

:SOURce:DATA:TELEcom:QSFP:CSETting?

Status Pins

:SOURce:DATA:TELEcom:CFP:STATus?

:SENSe:DATA:TELEcom:CFP:TX:STATus?

:SOURce:DATA:TELEcom:OSFP:STATus?

:SOURce:DATA:TELEcom:QSFP:STATus?

SCPI Command List - Functions

40/100/400G Advanced - CFP4/CFP8/OSFP/QSFP Control

MDIO/I2C Access Interface

Device Address

:SOURce:DATA:TELEcom:MDIO:DEVIce:ADDReSS
:SOURce:DATA:TELEcom:MDIO:DEVIce:ADDReSS?

Page Select

:SOURce:DATA:TELEcom:MDIO:PGSelect
:SOURce:DATA:TELEcom:MDIO:PGSelect?

Bulk Write button

Refer to *Bulk Write* on page 399.

MDIO Start Address

:SOURce:DATA:TELEcom:MDIO:STARt:ADDReSS
:SOURce:DATA:TELEcom:MDIO:STARt:ADDReSS?

MDIO End Address

:SOURce:DATA:TELEcom:MDIO:END:ADDReSS
:SOURce:DATA:TELEcom:MDIO:END:ADDReSS?

Bulk Read button

Refer to *Bulk Read* on page 399.

MDIO Address

:SOURce:DATA:TELEcom:MDIO:ADDReSS
:SOURce:DATA:TELEcom:MDIO:ADDReSS?

MDIO Data

:SOURce:DATA:TELEcom:MDIO:DATA
:SOURce:DATA:TELEcom:MDIO:DATA?

Read Button

:SOURce:DATA:TELEcom:MDIO:READ

Write Button

:SOURce:DATA:TELEcom:MDIO:WRITe

40/100/400G Advanced - Lanes Mapping & Skew

RX Skew

:SENSe:DATA:TELEcom:OTN:OTL:RX?

Default/Random/Manual Mapping button

:SOURce:DATA:TELEcom:OTN:OTL:MAPPING:DEFault

:SOURce:DATA:TELEcom:OTN:OTL:MAPPING:RANDom

:SOURce:DATA:TELEcom:OTN:OTL:MAPPING:MANual

:SOURce:DATA:TELEcom:ETHernet:LLAYer:MAPPING:DEFault

:SOURce:DATA:TELEcom:ETHernet:LLAYer:MAPPING:RANDom

:SOURce:DATA:TELEcom:ETHernet:LLAYer:MAPPING:MANual

Note: *See Manual Mapping.*

Reset Skew button

:SOURce:DATA:TELEcom:OTN:OTL:SKEW:RESet

:SOURce:DATA:TELEcom:ETHernet:LLAYer:SKEW:RESet

Note: *See Manual Skew.*

Skew Alarm Threshold

:SOURce:DATA:TELEcom:OTN:OTL:THReshold

:SOURce:DATA:TELEcom:OTN:OTL:THReshold?

Default button

:SOURce:DATA:TELEcom:OTN:OTL:THReshold:DEFault

APS

TX

Switching Mode

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?

K1 Request

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

K1 Channel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

K1 Destination Node Id

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?

K2 Protected Channel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

K2 Architecture

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

K2 Operation Mode

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?

K2 Source Node Id

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:SNODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?

K2 Bridge Request

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?

RX

Switching Mode

:SENSe:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE

:SENSe:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?

K1 Request

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

K1 Channel

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

K1 Destination Node Id

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?

K2 Protected Channel

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

K2 Architecture

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

K2 Operation Mode

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?

K2 Source Node Id

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?

K2 Bridge Request

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?

Client Offset

TX Frequency

Frequency

:FETCh:DATA:TELeom:ETHernet:COFFset:FREQuency?

Offset

:SOURce:DATA:TELeom:ETHernet:COFFset:FREQuency:ENABle

:SOURce:DATA:TELeom:ETHernet:COFFset:FREQuency:ENABle?

:SOURce:DATA:TELeom:ETHernet:COFFset:FREQuency:OFFSet

:SOURce:DATA:TELeom:ETHernet:COFFset:FREQuency:OFFSet?

RX Frequency

Frequency

:SENSe:DATA:TELeom:ETHernet:COFFset:CONFig:EFRequency?

Offset, Max Negative Offset, Max Positive Offset

:SENSe:DATA:TELeom:ETHernet:COFFset:FREQuency?

Frequency Offset Analysis

:SENSe:DATA:TELeom:ETHernet:COFFset:CONFig:FOANalysis:ENABle

:SENSe:DATA:TELeom:ETHernet:COFFset:CONFig:FOANalysis:ENABle?

FDL - Bit-Oriented Message

Generated Messages

Priority - Codeword

:SOURce:DATA:TELEcom:DSN:FDL:PRiority:CODeword

:SOURce:DATA:TELEcom:DSN:FDL:PRiority:CODeword?

Inject

:SOURce:DATA:TELEcom:DSN:FDL:MANual:INJect

:SOURce:DATA:TELEcom:DSN:FDL:MANual:INJect?

Command/Response

Codeword

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:CODeword

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:CODeword?

Amount

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:AMOUNT

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:AMOUNT?

Inject

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:INJect

Received Messages

Priority

:FETCh:DATA:TELEcom:DSN:FDL:PRiority:MESSAge?

Command/Response

:FETCh:DATA:TELEcom:DSN:FDL:RESPonse:CONTrol?

FDL - Performance Report Message

Generated Messages

Circuit

:SOURce:DATA:TELEcom:DSN:FDL:CHANnel:TYPE

:SOURce:DATA:TELEcom:DSN:FDL:CHANnel:TYPE?

ANSI T1.403

:SOURce:DATA:TELEcom:DSN:FDL:ANSI

:SOURce:DATA:TELEcom:DSN:FDL:ANSI?

Continuous

:SOURce:DATA:TELEcom:DSN:FDL:MODE

:SOURce:DATA:TELEcom:DSN:FDL:MODE?

Single

:SOURce:DATA:TELEcom:DSN:FDL:INJect

PRM Bit Events

:SOURce:DATA:TELEcom:DSN:FDL:BITevents:STATus

:SOURce:DATA:TELEcom:DSN:FDL:BITevents:STATus?

Event Count

:FETCh:DATA:TELEcom:DSN:FDL:EVENTcount?

Received Messages

Link Activity

:FETCh:DATA:TELEcom:DSN:FDL:LINK?

PRM Bit Events (Event Counts button)

:FETCh:DATA:TELEcom:DSN:FDL:BITevents?

Performance Information (Report Content button)

:FETCh:DATA:TELEcom:DSN:FDL:REPortcont?

Circuit

:FETCh:DATA:TELEcom:DSN:FDL:CIRCuit?

Valid Event Count

:FETCh:DATA:TELEcom:DSN:FDL:VALid:EVENTcount?

FEAC

Generated Messages

Alarms/Status and Unassigned

:SOURce:DATA:TELEcom:DSN:FEAC:CODeword

:SOURce:DATA:TELEcom:DSN:FEAC:CODeword?

:SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOUNT

:SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOUNT?

Inject - Manual Mode

:SOURce:DATA:TELEcom:DSN:FEAC:MANual:INJect

Inject - Continuous Mode

:SOURce:DATA:TELEcom:DSN:FEAC:CONTInuous

:SOURce:DATA:TELEcom:DSN:FEAC:CONTInuous?

SCPI Command List - Functions

FEAC

Loopback Commands

Control

:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CONTrol:CODeword
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CONTrol:CODeword?
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CONTrol:AMOUNT
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CONTrol:AMOUNT?

Channel

:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel:CODeword
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel:CODeword?
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel:AMOUNT
:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel:AMOUNT?

Inject

:SOURce:DATA:TELEcom:DSN:FEAC:LOOPback:INJect

Received Messages

Link Activity

:FETCh:DATA:TELEcom:DSN:FEAC:LINK?

Alarms/Status and Unassigned

:FETCh:DATA:TELEcom:DSN:FEAC:MESSAge?

Loopback Commands

:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CONTrol?
:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel?

Filters

Enable

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer?

Enabled Time

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ENABled:TIME?

Filter Configuration

(

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:BRACket:OPEN

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:BRACket:OPEN?

Not

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:OPERator:NOT

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:OPERator:NOT?

)

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:BRACket:CLOSe

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:BRACket:CLOSe?

Oper.

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:OPERator

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:OPERator?

Filter

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE?

Value and Mask

IPv4 Destination Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

Frame Format

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat?

MAC Destination Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

UDP Destination Port

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

TCP Destination Port

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:TCP
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

IPv4 DiffServ

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSErVices
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSErVices?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSErVices
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSErVices?

IPv4 Precedence

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PREcedence
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PREcedence?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PREcedence
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PREcedence?

IPv4 Source Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

MAC Source Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:MAC
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

UDP Source Port

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:UDP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

TCP Source Port

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:TCP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:TCP?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

IPv4 TOS

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TOS
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TOS?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS?

S-VLAN/E-VLAN/C-VLAN ID

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

S-VLAN/E-VLAN/C-VLAN Priority

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRIority
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRIority?
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority
 :SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

IPv4 Protocol

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:IPPRotocol
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

EtherType

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:ETHertype
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:ETHertype?

IPv6 Destination Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion?

IPv6 Source Address

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion?

IPv6 Flow Label

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLABel:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLABel:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion?

IPv6 Next Header

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:NHEader:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:NHEader:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion?

IPv6 DiffServ

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices:IPVersion?

IPv6 Precedence

```
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PRECedence:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PRECedence:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion?
```

IPv6 TOS

```
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TOS:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TOS:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion?
```

MPLS Label x

```
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MLABel[1..n]
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MLABel[1..n]?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]?
```

MPLS COS x

```
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MCOS[1..n]
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MCOS[1..n]?
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]
:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]?
```

Filter Statistics

Line Utilization

```
:SENSe:DATA:TELEcom:ETHernet:FILTer:FRAME:UTILization?
```

Ethernet BW

```
:SENSe:DATA:TELEcom:ETHernet:FILTer:FRAME:BANDwidth?
```

Frame Rate

```
:SENSe:DATA:TELEcom:ETHernet:FILTer:FRAME:RATE?
```

Frame Count

```
:SENSe:DATA:TELEcom:ETHernet:FILTer:FRAME:COUNt?
```

Error Count

```
:SENSe:DATA:TELEcom:ETHernet:FILTer:STATistics?
```

FlexE Advanced

RX Skew

:FETCh:DATA:TELeom:FETHernet:PHY:SKEW:RX?

RX PHY

:FETCh:DATA:TELeom:FETHernet:GROup:PNUMber:RX?

Alarms/Errors

Refer to *PHYs/Instances (FlexE - Group)* on page 247.

Reset/Manual Skew button

Refer to *Reset/Manual Skew* on page 422.

PHY Skew Alarm Threshold (ns)

:SOURce:DATA:TELeom:FETHernet:PHY:SKEW:THReshold

:SOURce:DATA:TELeom:FETHernet:PHY:SKEW:THReshold?

Default

:SOURce:DATA:TELeom:FETHernet:PHY:SKEW:THReshold:RESet

OH BERT

OH BERT

:SOURce:DATA:TELeom:OTN:GCC:OBERT

:SOURce:DATA:TELeom:OTN:GCC:OBERT?

Mode

:SOURce:DATA:TELeom:OTN:GCC:MODE

:SOURce:DATA:TELeom:OTN:GCC:MODE?

Invert PRBS15 Pattern

:SOURce:DATA:TELeom:OTN:GCC:PATtern:POLarity

:SOURce:DATA:TELeom:OTN:GCC:PATtern:POLarity?

OTUx/ODUx

Check boxes:

:SOURce:DATA:TELEcom:OTN:GCC:ENable

:SOURce:DATA:TELEcom:OTN:GCC:ENable?

Current/history status:

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:CURRent?

BERT

Pattern Loss

:FETCh:DATA:TELEcom:OTN:GCC:ALARm:HISTory?

:FETCh:DATA:TELEcom:OTN:GCC:ALARm:CURRent?

:FETCh:DATA:TELEcom:OTN:GCC:ALARm:SEConds?

Bit Error

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:CURRent?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:SEConds?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:COUNt?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:RATE?

Bit Error

:SOURce:DATA:TELEcom:OTN:GCC:ERRor:MANual:INJect

Reset

:SOURce:DATA:TELEcom:OTN:GCC:RESet

GMP

TX Cm

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CMStatus?

TX CnD

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CNDStatus?

RX Cm

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:CMStatus?

RX CnD

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:CNDStatus?

OH - GFP-F/GFP-T

TX

PTI

:SOURce:DATA:TELEcom:GFP:OH:THEader:PTI

:SOURce:DATA:TELEcom:GFP:OH:THEader:PTI?

PFI

:SOURce:DATA:TELEcom:GFP:OH:THEader:PFI

:SOURce:DATA:TELEcom:GFP:OH:THEader:PFI?

EXI

:SOURce:DATA:TELEcom:GFP:OH:THEader:EXI

:SOURce:DATA:TELEcom:GFP:OH:THEader:EXI?

UPI

:SOURce:DATA:TELEcom:GFP:OH:THEader:UPI

:SOURce:DATA:TELEcom:GFP:OH:THEader:UPI?

CID

:SOURce:DATA:TELEcom:GFP:OH:EHEader:CID

:SOURce:DATA:TELEcom:GFP:OH:EHEader:CID?

Spare

:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe?

Default All OH

:SOURce:DATA:TELecom:GFP:OH:REStore:DEFault

Default (per TX overhead byte)

:SOURce:DATA:TELecom:GFP:OH:DEFault

RX

Client Data

:FETCh:DATA:TELecom:GFP:OH:DFRames?

Client Management

:FETCh:DATA:TELecom:GFP:OH:MFRames?

Reserved PTI

:FETCh:DATA:TELecom:GFP:OH:RPTiframes?

OH - OTN

OTU

:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:F:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:F:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OTU[1..n]:F:OVERhead?

ODU

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:F:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:F:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:ODU[1..n]:F:OVERhead?

OPU

:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:OVERhead?
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:PSI
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:PSI?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:E:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:E:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:E:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:E:PSI
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:E:PSI?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:E:PSI?

:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:F:OVERhead
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:F:OVERhead?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:F:OVERhead?
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:F:PSI
:SOURce:DATA:TELEcom:OTN:OH:OPU[1..n]:F:PSI?
:SENSe:DATA:TELEcom:OTN:OH:OPU[1..n]:F:PSI?

Default OTN OH

:SOURce:DATA:TELEcom:OTN:OH:REStore:DEFault
:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:DEFault
:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:F:DEFault
:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:F:DEFault

OH - SONET/SDH

TX

Section

:SOURce:DATA:TELEcom:SONet:OH:SECTion:OVERhead
:SOURce:DATA:TELEcom:SONet:OH:SECTion:OVERhead?
:SOURce:DATA:TELEcom:SONet:OH:SECTion:OVERhead:DEFault

Line

:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead
:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead?
:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead:DEFault

RS

:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]
:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]?
:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]:DEFault

MS

:SOURce:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n]
:SOURce:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n]?
:SOURce:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n]:DEFault

STS/AU

:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead
:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead?
:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead:DEFault

VT/TU

:SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead
:SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead?
:SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead:DEFault

TU3

:SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead
:SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead?
:SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead:DEFault

Disable all Overwrites

:SOURce:DATA:TELEcom:SDHSonet:OH:DISable:OVERwrite

Default All OH

:SOURce:DATA:TELEcom:SDHSonet:OH:REStore:DEFault

RX**Section/RS**

:SENSe:DATA:TELEcom:SONet:OH:SECTion:OVERhead?

Line/MS

:SENSe:DATA:TELEcom:SONet:OH:LINE:OVERhead?

RS

:SENSe:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]?

MS

:SENSe:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n]?

STS/AU

:SENSe:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead?

VT/TU

:SENSe:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead?

TU3

:SENSe:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead?

OH - FlexE

Note: *There are no specific SCPI commands for **FlexE PHY** / **Instance Number** and **Frame**, they are specified as parameters in the following commands when applicable.*

Default FlexE OH

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault

Block 1

SH

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Type

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

C

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar?

:SENSe:DATA:TELEcom:FETHernet:OH?

RPF

:SOURce:DATA:TELEcom:FETHernet:OH:RPF?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Res

:SOURce:DATA:TELEcom:FETHernet:OH:REServed

:SOURce:DATA:TELEcom:FETHernet:OH:REServed?

:SENSe:DATA:TELEcom:FETHernet:OH:REServed?

SC

:SOURce:DATA:TELEcom:FETHernet:OH:SC

:SOURce:DATA:TELEcom:FETHernet:OH:SC?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Group

:SOURce:DATA:TELEcom:FETHernet:OH:GROup?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

O Code

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

000_0000 Code

:SOURce:DATA:TELEcom:FETHernet:OH:OXO?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Block 2

SH

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

C

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar?

:SENSe:DATA:TELEcom:FETHernet:OH?

FlexE Map

:SOURce:DATA:TELEcom:FETHernet:OH:FMAP?

:SENSe:DATA:TELEcom:FETHernet:OH:FMAP?

Instance Number

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Reserved

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Block 3

SH

:SOURce:DATA:TELEcom:FETHernet:OH:DEFault:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

C

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar

:SOURce:DATA:TELEcom:FETHernet:GROup:CALendar?

:SENSe:DATA:TELEcom:FETHernet:OH?

Client Calendar

For TX refer to *FlexE Calendar*.

:SENSe:DATA:TELEcom:FETHernet:OH:CLient:CALendar?

CR / CA

:SOURce:DATA:TELEcom:FETHernet:OH

:SOURce:DATA:TELEcom:FETHernet:OH?

:SENSe:DATA:TELEcom:FETHernet:OH?

Reserved

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

CRC-16

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Block 4-5

SH / Management Channel-Section / Reserved

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Block 6

**SH / Management Channel-Shim to Shim /
Management Channel - Synchronization Channel / Reserved**

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Block 7-8

SH / Management Channel-Shim to Shim / Reserved

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE?

:SENSe:DATA:TELEcom:FETHernet:OH:BYTE?

Packet Capture

Capture Source

:SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE

:SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE?

Frame Length

Complete/Truncated

:SOURce:DATA:TELEcom:CAPTure:FRAMe:SIZE

:SOURce:DATA:TELEcom:CAPTure:FRAMe:SIZE?

Bytes

:SOURce:DATA:TELEcom:CAPTure:BYTE

:SOURce:DATA:TELEcom:CAPTure:BYTE?

Trigger

Trigger Type

:SOURce:DATA:TELEcom:CAPTure:TSource

:SOURce:DATA:TELEcom:CAPTure:TSource?

On Error (error selection)

:SOURce:DATA:TELEcom:CAPTure:TSource:TYPE

:SOURce:DATA:TELEcom:CAPTure:TSource:TYPE?

Trigger Position

:SOURce:DATA:TELEcom:CAPTure:TRIGger

:SOURce:DATA:TELEcom:CAPTure:TRIGger?

Status and Controls

Capture

:SOURce:DATA:TELEcom:ETHernet:GLOBal:CONTRol

:SOURce:DATA:TELEcom:ETHernet:GLOBal:CONTRol?

Capture Status

:FETCh:DATA:TELEcom:ETHernet:STATus?

Frame Count

:FETCh:DATA:TELEcom:ETHernet:FRAMe:COUNt?

Buffer Usage

:FETCh:DATA:TELEcom:ETHernet:BUFFer:UTILization?

Triggered Error

:FETCh:DATA:TELEcom:ETHernet:TRIGger:ERRor?

Triggered Frame

:FETCh:DATA:TELEcom:ETHernet:CFG:STATus?

Path OAM APS

Path OAM APS

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ENABle?

Request/State Interpretation

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:STANDard

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:STANDard?

Path OAM on Client ID

:SOURce:DATA:TELEcom:FETHernet:POAM:CLient:IDentifier?

TX/RX

Request/State

For G.873.1:

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:CMCC:REQState:GENerated

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:CMCC:REQState:GENerated?

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:CMCC:REQState:RECeived?

For G8331:

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ITU:REQState:GENerated

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ITU:REQState:GENerated?

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:ITU:REQState:RECeived?

SCPI Command List - Functions

Path OAM APS

Requested Signal

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:RSIGnal:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:RSIGnal:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:RSIGnal:RECeived?

Bridged Signal

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:BSIGnal:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:BSIGnal:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:BSIGnal:RECeived?

Reserved

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:RESByte:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:RESByte:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:RESByte:RECeived?

Protection Type A

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:A:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:A:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:PROTection:A:RECeived?

Protection Type B

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:B:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:B:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:PROTection:B:RECeived?

Protection Type D

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:D:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:D:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:PROTection:D:RECeived?

Protection Type R

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:R:GENerated
:SOURce:DATA:TELEcom:FETHernet:POAM:APS:PROTection:R:GENerated?
:FETCh:DATA:TELEcom:FETHernet:POAM:APS:PROTection:R:RECeived?

TX

Apply Changes

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:CONFIguration:APPLY

RX

APS

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:RX:MESSage:COUNT?

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:TX:MESSage:COUNT?

Ping & Trace Route

Source IP Address

For IPv4:

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:SOURce:IP?

For IPv6:

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:IPVersion:SOURce?

For stream/service IP selection:

:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDeX

:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDeX?

Destination IP Address

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:DESTination:IP

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:DESTination:IP?

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:IPVersion:DESTination

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:IPVersion:DESTination?

Use Stream

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:DESTination:IP:USTReam

:SOURce:DATA:TELEcom:PING:CONFig:ADDReSS:DESTination:IP:USTReam?

SCPI Command List - Functions

Ping & Trace Route

Ping

Ping button

:SOURce:DATA:TELEcom:PING:SETup:RUN
:SOURce:DATA:TELEcom:PING:SETup:RUN?

Timeout

:SOURce:DATA:TELEcom:PING:CONFig:TOUT
:SOURce:DATA:TELEcom:PING:CONFig:TOUT?

Delay

:SOURce:DATA:TELEcom:PING:CONFig:DELay
:SOURce:DATA:TELEcom:PING:CONFig:DELay?

Data Size

:SOURce:DATA:TELEcom:PING:CONFig:DSIZE
:SOURce:DATA:TELEcom:PING:CONFig:DSIZE?

TTL

:SOURce:DATA:TELEcom:PING:CONFig:TTL
:SOURce:DATA:TELEcom:PING:CONFig:TTL?

IP TOS/DS

:SOURce:DATA:TELEcom:PING:CONFig:TOS
:SOURce:DATA:TELEcom:PING:CONFig:TOS?

Attempts

Continuous

:SOURce:DATA:TELEcom:PING:CONFig:CONTInuous
:SOURce:DATA:TELEcom:PING:CONFig:CONTInuous?

n-Attempt

:SOURce:DATA:TELEcom:PING:CONFig:ATTempts
:SOURce:DATA:TELEcom:PING:CONFig:ATTempts?

Flow Label

:SOURce:DATA:TELEcom:PING:CONFig:FLABel
:SOURce:DATA:TELEcom:PING:CONFig:FLABel?

Trace Route

Trace Route button

:SOURce:DATA:TELEcom:TRACe:CONFig:RUN

:SOURce:DATA:TELEcom:TRACe:CONFig:RUN?

Timeout

:SOURce:DATA:TELEcom:TRACe:CONFig:TOUT

:SOURce:DATA:TELEcom:TRACe:CONFig:TOUT?

Max Hop Count

:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt

:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt?

Results

Ping

:FETCh:DATA:TELEcom:PING:STATistics:RESults?

Trace Route

:FETCh:DATA:TELEcom:TRACe:STATistics:RESults?

Statistics

Packets Transmitted

Ping

:FETCh:DATA:TELEcom:PING:STATistics:TX?

Trace Route

:FETCh:DATA:TELEcom:TRACe:STATistics:TX?

Packets Received

Ping

:FETCh:DATA:TELEcom:PING:STATistics:RX?

Trace Route

:FETCh:DATA:TELEcom:TRACe:STATistics:TX?

Percentage Lost

:FETCh:DATA:TELEcom:PING:STATistics:LOST?

SCPI Command List - Functions

Pointer Adjustment

Min Round Trip Time

:FETCh:DATA:TELEcom:PING:STATistics:MINimum?

Max Round Trip Time

:FETCh:DATA:TELEcom:PING:STATistics:MAXimum?

Avg. Round Trip Time

:FETCh:DATA:TELEcom:PING:STATistics:AVERage?

Pointer Adjustment

TX Pointer Adjustment - Manual

Pointer Value

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:VALue?

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?

Step

Increment Value

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:SIZE?

Increment button

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement

Decrement Value

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SIZE?

Decrement button

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement

Jump**New Pointer**

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue
:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue?
:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:VALue
:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:VALue?

Inject button

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW
:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW

New Data Flag

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:FLAG
:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:FLAG?
:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG
:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG?

TX Pointer Adjustment - Sequence**Sequence**

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:PATtern
:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:PATtern?

Increment/Decrement selection

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:TYPE
:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:TYPE?

Periodic

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:PERiodic:STATus
:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:PERiodic:STATus?

Init-Cool

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:INITcool:STATus
:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:INITcool:STATus?

Sequence value

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:TIMeline:VALue
:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter:TIMeline:VALue?

SCPI Command List - Functions

Pointer Adjustment

Sequence button

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter

:SOURce:DATA:TELEcom:SDHSonet:SEquence:POINter?

Pointer Value

:FETCh:DATA:TELEcom:SDHSonet:SEquence:POINter:VALue?

Status

:FETCh:DATA:TELEcom:SDHSonet:SEquence:POINter:STATus?

RX Pointer Adjustment

Pointer Value

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:VALue?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?

Cumulative Offset

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:OFFSet?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:OFFSet?

Ptr. Incr.

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SEConds?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:SEConds?

Ptr. Decr.

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SEConds?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SEConds?

NDF

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NDF:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NDF:SEConds?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NDF:COUNT?

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NDF:SEConds?

No NDF

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NNDF:COUNt?
:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NNDF:SEConds?
:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NNDF:COUNt?
:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NNDF:SEConds?

RTD

Mode

:SENSe:DATA:TELEcom:RTD:MODE
:SENSe:DATA:TELEcom:RTD:MODE?

Measure Delay button

:SENSe:DATA:TELEcom:RTD
:SENSe:DATA:TELEcom:RTD?

Status

:FETCh:DATA:TELEcom:RTD:DELAy:STATUs?

Reset button

:SENSe:DATA:TELEcom:RTD:RESEt

Delay

:FETCh:DATA:TELEcom:RTD:DELAy:LAST?
:FETCh:DATA:TELEcom:RTD:DELAy:MINimum?
:FETCh:DATA:TELEcom:RTD:DELAy:MAXimum?
:FETCh:DATA:TELEcom:RTD:DELAy:AVERAge?

Count

:FETCh:DATA:TELEcom:RTD:COUNt:SUCCEssful?
:FETCh:DATA:TELEcom:RTD:COUNt:FAILED?

RTD/RTT (CPRI Framed L2)

Round Trip Delay (CPRI)

Delay T14

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:LAST?

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:MINimum?

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:MAXimum?

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:AVErAge?

Cable Delay

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:LAST?

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:MINimum?

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:MAXimum?

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:AVErAge?

Remote Radio Head - Toffset

:SOURce:DATA:TELeom:CPRI:RTD:TOFFset

:SOURce:DATA:TELeom:CPRI:RTD:TOFFset?

Round Trip Time (OBSAI)

RTT

:FETCh:DATA:TELeom:CPRI:OBSai:RTT?

Propagation Delay

:FETCh:DATA:TELeom:CPRI:OBSai:PROPdelay?

Delay $\Delta_{1,2}$

:FETCh:DATA:TELeom:CPRI:OBSai:IDELay?

S-OAM Link Trace

Link Trace

Priority

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority?

Drop Eligible

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:DROP:ELIGible
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:DROP:ELIGible?

TTL

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL?

Link Trace button

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle?

Result

Table

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult?

TX LTM

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?

RX LTR

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?

LTR Timeout

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:LTR:TIMEout?

Invalid LTR

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:INValid:LTR?

Last Link Trace Status

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:STATus?

Signaling Bits

TX Signaling

Signaling Mode

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:MODE

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:MODE?

ABCD

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent?

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:CONTent

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:CONTent?

RX Signaling

ABCD

:FETCh:DATA:TELEcom:DSN:SIGNalbit:VALue?

:FETCh:DATA:TELEcom:PDH:SIGNalbit:VALue?

Spare Bits

TX

:SOURce:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues

:SOURce:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues?

RX

:FETCh:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues?

Traffic Scan

Scan button

:SOURce:DATA:TELEcom:TSCan:SCAN:ENABLE

:SOURce:DATA:TELEcom:TSCan:SCAN:ENABLE?

Level

:SOURce:DATA:TELEcom:TSCan:LEVel:TYPE

:SOURce:DATA:TELEcom:TSCan:LEVel:TYPE?

Link Rate

:FETCh:DATA:TELEcom:TSCan:LINK:RATE?

Limit Reached

:FETCh:DATA:TELEcom:TSCan:LREached:STATus?

Discovered

:FETCh:DATA:TELEcom:TSCan:DISCovered?

Result table

:FETCh:DATA:TELEcom:TSCan:LIST?

Total Frame Count

:FETCh:DATA:TELEcom:TSCan:STATistics:FCOunt:TOTal?

Total Rate

:FETCh:DATA:TELEcom:TSCan:STATistics:RATE:TOTal?

8 **SCPI Command List - Pop-Up**

Note: The symbol || precedes a parallel interface command when a different command is used for a serial interface. For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:
:SOURce:DATA:TELeom:PORT

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DS1 Loopback on page 400

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Modify Frame Structure on page 416

Modify Tributary Slots/Port on page 417

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Modify TX Power - DCO BERT on page 418

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SCPI Command List - Pop-Up

List of Pop-Up

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Bulk Read

:SOURce:DATA:TELecom:MDIO:BULK:READ
:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Bulk Write

Page Select

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

Address

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDReSS
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDReSS?

Data

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

Bulk Write button

:SOURce:DATA:TELecom:MDIO:BULK:WRITe

Default button

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DEFault

Config TCM

TCM

:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?

Configure Per Frame Size

Max Rate

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall?

All Frames

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAME
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAME?

Copy Service

:SOURce:DATA:TELecom:ETHernet:STream:GLOBal:COPYstream

Copy Stream

:SOURce:DATA:TELecom:ETHernet:STream:GLOBal:COPYstream

DS1 Loopback

Loop Code

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?

Loop-UP and Loop-Down buttons

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:INJect
:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?
:FETCh:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Modify Loop Codes

Name

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

Loop-Up

:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP

:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP?

Loop-Down

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN?

EMIX

Quantity

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:QUANtity

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:QUANtity?

EMIX Frame Sizes

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:SIZE

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:SIZE?

Restore Default

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:DEFault

Filter Configuration

(
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:BRACket:OPEN
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:BRACket:OPEN?

Not
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:OPERator:NOT
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:OPERator:NOT?

Oper.
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:OPERator
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:OPERator?

)
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:BRACket:CLOSe
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:BRACket:CLOSe?

Filter
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE?

Value and Mask

IPv4 Destination Address
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IP?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IP?

IPv6 Destination Address
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion?

MAC Destination Address
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:MAC
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:MAC?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC?

UDP Destination Port

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP?
```

TCP Destination Port

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:TCP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:TCP?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP?
```

IPv4 DiffServ

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DSERvices
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DSERvices?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices?
```

IPv6 DiffServ

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DSERvices:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DSERvices:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion?
```

IPv4 Precedence

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PREcedence
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PREcedence?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PREcedence
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PREcedence?
```

IPv6 Precedence

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PREcedence:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PREcedence:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PREcedence:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PREcedence:IPVersion?
```

IPv6 Next Header

```
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:NHEader:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:NHEader:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion?
```

SCPI Command List - Pop-Up

Filter Configuration

IPv6 Flow Label

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion?

IPv4 Source Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP?

IPv6 Source Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion?

MAC Source Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC?

UDP Source Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP?

TCP Source Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP?

IPv4 TOS

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS?

IPv6 TOS

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TOS:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TOS:IPVersion?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion?

S-VLAN/E-VLAN/C-VLAN ID

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:ID
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:ID?

S-VLAN/E-VLAN/C-VLAN Priority

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:PRiority
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:PRiority?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:PRiority
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:PRiority?

IPv4 Protocol

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:IPPRotocol
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:IPPRotocol?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol?

EtherType

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:ETHertype
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:ETHertype?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHertype
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHertype?

Frame Format

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAME:FORMat
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAME:FORMat

MPLS Label x

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MLABel[1..n]
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MLABel[1..n]?
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]
:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]?

SCPI Command List - Pop-Up

FlexE Calendar

MPLS COS x

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MCOS[1..n]

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MCOS[1..n]?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n]

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n]?

FlexE Calendar

Client Assignment

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:CONFig?

Edit ID

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:MCID

Add Client

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:ACLient

Delete Client

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:RCLient

Delete All

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:DELeTe

Assign slots to client:

:SOURce:DATA:TELEcom:FETHernet:CLient:CALendar:MOSLots

Grandmaster Information

Port Identity

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PIDentity?

GM Identity

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:IDENtity?

Priority 1

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:ONE?

Priority 2

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:TWO?

Clock Class

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCk:CLASs?

Clock Accuracy

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCk:ACCUracy?

Time Source

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:TSOUrce?

Clock Mode

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCk:MODE?

Steps Removed

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:SREMOVED?

Log Message Interval (Announce)

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:LMIAnnounce?

Log Message Interval (Sync)

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:LMISync?

IPv6 Address Configuration

Link-Local IPv6 Address

Mode

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCAl:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCAl:IPVersion:MODE?

- Status

:FETCh:DATA:TELEcom:ETHernet:NETWork:LOCAl:IPVersion:ADDResS:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:LOCAl:IPVersion:ADDResS:STATus?

Address

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCAl:IPVersion:ADDResS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCAl:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCAl:IPVersion:ADDResS?

Global IPv6 Address

Mode

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?

Status

:FETCh:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDResS:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:GLOBal:IPVersion:ADDResS:STATus?

Address

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDResS?

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDResS?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDResS?

Interface ID Coupled

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:IICoupled

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?

Prefix Mask

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk?

Default Gateway

Mode

:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?

Status

:FETCh:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDResS:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:DGATeway:IPVersion:ADDResS:STATus?

Address

:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDResS?

:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:ADDResS

:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:ADDResS?

*:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes
S*

*:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes
S?*

Laser ON/OFF Button

Laser

- Per lane ON/OFF

:SENSe:DATA:TELEcom:LASer

:SENSe:DATA:TELEcom:LASer?

- All lanes ON/OFF

:OUTPut:TELEcom:LASer

:OUTPut:TELEcom:LASer

All Lanes selection

:SENSe:DATA:TELEcom:ALASer

:SENSe:DATA:TELEcom:ALASer?

Link Degradate Signaling Thresholds

Activate Threshold (Symbols)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:ACTivate

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?

Deactivate Threshold (Symbols)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:DEACTivate

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:DEACTivate?

Interval (CW)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INTerval

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

LLDP Neighbor

Listening MAC Address

:SOURce:DATA:TELEcom:ETHernet:PORT:LLDP:LMAC

:SOURce:DATA:TELEcom:ETHernet:PORT:LLDP:LMAC?

TTL Expired

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:TTLexpired?

Chassis ID

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:CID?

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:CIDSubtype?

Port ID

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PID?

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PIDSubtype?

Port Description

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PDEscription?

System Name

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SNAME?

System Description

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SDEscription?

Management Address

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:MADdress?

Port VLAN ID

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PVID?

Manual Mapping

```
:SOURce:DATA:TELEcom:ETHernet:LLAYer:TX
:SOURce:DATA:TELEcom:ETHernet:LLAYer:TX?

:SENSe:DATA:TELEcom:ETHernet:LLAYer:RX?
:SOURce:DATA:TELEcom:ETHernet:LLAYer:SKEW:ALLLane
:SOURce:DATA:TELEcom:ETHernet:LLAYer:SKEW:ALLLane?
:SOURce:DATA:TELEcom:ETHernet:LLAYer:SKEW:ALLLane:TX
:SOURce:DATA:TELEcom:ETHernet:LLAYer:SKEW:ALLLane:TX?
```

Manual Skew

All Lanes

```
:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane
:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane?
```

Skew value - All Lanes

```
:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane:TX
:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane:TX?
```

Skew value - per Lane

```
:SOURce:DATA:TELEcom:OTN:OTL:TX
:SOURce:DATA:TELEcom:OTN:OTL:TX?
```

Modify DS0

DS0/E0 Size

:SOURce:DATA:TELEcom:DS[1..n]:MODE

:SOURce:DATA:TELEcom:DS[1..n]:MODE?

:SOURce:DATA:TELEcom:PDH:E[1..n]:MODE

:SOURce:DATA:TELEcom:PDH:E[1..n]:MODE?

Zero Code Suppression

:SOURce:DATA:TELEcom:DS[1..n]:ZCS

:SOURce:DATA:TELEcom:DS[1..n]:ZCS?

:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS

:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS?

Payload Content

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent:TYPE?

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent:TYPE?

Set All

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent:ALL

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent:ALL

TX

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent?

:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent

:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent?

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent?

:SENSe:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent

:SENSe:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent?

Tone

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:TONE

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:TONE?

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:TONE

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:TONE?

Idle

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:IDLE

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:IDLE?

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE?

RX**Apply Channel TX to RX**

:SOURce:DATA:TELEcom:DS[1..n]:SYNC:TXRX

:SOURce:DATA:TELEcom:DS[1..n]:SYNC:TXRX?

:SOURce:DATA:TELEcom:PDH:E[1..n]:SYNC:TXRX

:SOURce:DATA:TELEcom:PDH:E[1..n]:SYNC:TXRX?

Modify Frame Structure

Global Option

IP Version

:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?

Layer Mode

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:LAYermode

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:LAYermode?

Framing

Frame Format

:SOURce:DATA:TELEcom:ETHernet:STReam:DATalink

:SOURce:DATA:TELEcom:ETHernet:STReam:DATalink?

Network Layer

:SOURce:DATA:TELEcom:ETHernet:STReam:NETWork

:SOURce:DATA:TELEcom:ETHernet:STReam:NETWork?

Transport Layer

:SOURce:DATA:TELEcom:ETHernet:STReam:TRANSport

:SOURce:DATA:TELEcom:ETHernet:STReam:TRANSport?

VLAN

VLAN

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN?

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked?

MPLS

MPLS Label

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS?
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:HEADers
:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:HEADers?

Modify Tributary Slots/Port

Fixed Structure

:SOURce:DATA:TELEcom:OTN:FSTRucture:ENABle
:SOURce:DATA:TELEcom:OTN:FSTRucture:ENABle?

Tributary Port

:SOURce:DATA:TELEcom:OTN:PORT
:SOURce:DATA:TELEcom:OTN:PORT?

Nominal Bit Rate

:FETCh:DATA:TELEcom:OTN:BITRate?

Number of Trib Slots

:FETCh:DATA:TELEcom:OTN:SLOTs?

Select/Un-select Slot

:SOURce:DATA:TELEcom:OTN:POSition
:SOURce:DATA:TELEcom:OTN:POSition?

Select/Un-select a group of slots

:SOURce:DATA:TELEcom:OTN:POSition:RANGe

List all Slot status

:SOURce:DATA:TELEcom:OTN:POSition:RANGe?

Modify Trib Slots/Channels (Multi-Channel OTN)

TX = RX

:SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled

:SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled?

ODU/Channel/Slots Assignment

ODU Type and Channel ID structure selection (Mix-Mapping)

:SOURce:DATA:TELEcom:OTN:FRAMing:MIX

:SOURce:DATA:TELEcom:OTN:FRAMing:MIX?

Tributary slot assignment

:SOURce:DATA:TELEcom:OTN:TRIButaries

:SOURce:DATA:TELEcom:OTN:TRIButaries?

Modify Tributary Slots

Default

:SOURce:DATA:TELEcom:OTN:TRIButaries:DEFAult

Copy RX MSI

:SOURce:DATA:TELEcom:OTN:TRIButaries:COPYrx

Modify TX Power - DCO BERT

Note: *Not supported yet.*

Modify Wavelength (SFP)

Wavelength

:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength

:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength?

For Lpbk Tools

:SOURce:DATA:TELEcom:OPTical:SLTool:TUNable:WAVelength

:SOURce:DATA:TELEcom:OPTical:SLTool:TUNable:WAVelength?

Channel Number

:SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:NUMBer?

For Lpbk Tools

:SENSe:DATA:TELEcom:OPTical:SLTool:TUNable:CHANnel:NUMBer?

Frequency

:SENSe:DATA:TELEcom:OPTical:TUNable:FREQuency?

For Lpbk Tools

:SENSe:DATA:TELEcom:OPTical:SLTool:TUNable:FREQuency?

Channel Spacing

:SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:SPACing?

For Lpbk Tools

:SENSe:DATA:TELEcom:OPTical:SLTool:TUNable:CHANnel:SPACing?

Modify Wavelength (DCO)

Note: Only some SCPI commands are supported.

Channel Frequency (THz)

:SOURce:DATA:TELEcom:OPTical:DCO:TUNable:CHANnel:FREQuency
:SOURce:DATA:TELEcom:OPTical:DCO:TUNable:CHANnel:FREQuency?

Apply

:SOURce:DATA:TELEcom:OPTical:DCO:TUNable:AUSR

Profile (Services)

Voice / Video / Data

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE?

Voice Codec

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe
:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe?

Number of Calls

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe:CALLs
:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe:CALLs?

Video Codec

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDeo
:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDeo?

Number of Channels

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDeo:CHANnels
:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDeo:CHANnels?

Profile (Stream)

Profile

Voice / Video / Data

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE?

Voice Codec

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe?

Number of Calls

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe:CALLs

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe:CALLs?

Video Codec

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDEo

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDEo?

Number of Channels

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDEo:CHANnels

:SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDEo:CHANnels?

Remote Interface Discovery

Discover

:SOURce:DATA:TELEcom:ETHernet:REMOte:SCANning:STATus

:SOURce:DATA:TELEcom:ETHernet:REMOte:SCANning:STATus?

Remote Interfaces

:SOURce:DATA:TELEcom:ETHernet:REMOte:SIGNature:LIST?

:SOURce:DATA:TELEcom:ETHernet:REMOte:SIGNature:DETail?

Apply To Stream

:SOURce:DATA:TELEcom:ETHernet:REMOte:SIGNature:APPLY

Reset/Manual Skew

Manual Skew

:SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX

:SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX?

Reset Skew

:SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX:RESet

Shaping

Burst Duty Cycle

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:BANDwidth

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:BANDwidth?

Period

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:TIME

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:TIME?

Burst Count

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:COUNt

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:COUNt?

Ramp Nb. of Steps

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP?

Step Time

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:TIME

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:TIME?

Ramp Cycle Count

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:COUNt

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:COUNt?

Stream (Summary)

Jitter

```
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:CURRent?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:ESTimate?

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict?
```

Latency

```
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict?
```

RX Rate / Throughput

```
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:CURRent?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:CURRent:VERDict?

:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:AVERAge?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:AVERAge:VERDict?

:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MINimum?
:FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MAXimum?
```

RX Frame Count

```
:FETCh:DATA:TELEcom:ETHernet:COUNT:FRAMES:RX?
```

TX Rate

Percentage:

```
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE?
```

Mbit/s:

```
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS
:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS?
```

SCPI Command List - Pop-Up

Thresholds (FEC Degraded SER)

TX Frame Count

:FETCh:DATA:TELEcom:ETHernet:COUnT:FRAMes:TX?

Frame Loss

Out-of-Sequence

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUnT?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

Verdict

:FETCh:DATA:TELEcom:ETHernet:STReam:FLOSS:VERDict?

:FETCh:DATA:TELEcom:ETHernet:STReam:OOSequence:VERDict?

Thresholds (FEC Degraded SER)

Interval (CW)

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:INTERval

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:INTERval?

Activate Threshold (Symbols)

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:ACTIvate

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:ACTIvate?

Deactivate Threshold (Symbols)

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:DEACTivate

:SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:DEACTivate?

Thresholds - FED/FDD

Note: *Not supported yet.*

Thresholds (Link Degradе Signaling)

Interval (CW)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INTERval

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INTERval?

Activate Threshold (Symbols)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:ACTivate

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?

Deactivate Threshold (Symbols)

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:DEACTivate

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:DEACTivate?

Thresholds (RFC 2544)

Back-to-Back / Frame Loss / Latency / Round-Trip Latency / One-Way Latency Thresholds

:SOURce:DATA:TELEcom:ETHernet:REMote:THReshold

:SOURce:DATA:TELEcom:ETHernet:REMote:THReshold?

Thresholds (S-OAM)

Frame Delay / Frame Loss / Synthetic Loss Thresholds

:SOURce:DATA:TELEcom:SOAM:THReshold

:SOURce:DATA:TELEcom:SOAM:THReshold?

TOS/DS Configuration

Note: *There is no SCPI command for **TOS/DS** selection, configuring the following **Differentiated Services** and **Type Of Service** settings define the final **Traffic Class (TOS/DS)** value.*

Differentiated Services

DSCP Codepoints

:SOURce:DATA:TELEcom:ETHernet:STReam:DS:CODE

:SOURce:DATA:TELEcom:ETHernet:STReam:DS:CODE?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE

:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE?

ECN

:SOURce:DATA:TELEcom:ETHernet:STReam:DS:ECN

:SOURce:DATA:TELEcom:ETHernet:STReam:DS:ECN?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:DS:ECN

:SOURce:DATA:TELEcom:ETHernet:IP:DS:ECN?

Type Of Service

Precedence

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PREcedence

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PREcedence?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:PREcedence

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:PREcedence?

Delay

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DElay

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DElay?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:DElay

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:DElay?

Throughput

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:THRoughput

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:THRoughput?

Reliability

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:RELIability

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:RELIability?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:RELIability

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:RELIability?

Monetary Cost

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:COST

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:COST?

Reserved Bit

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:BIT

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:BIT?

For L->R and R->L

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:BIT

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:BIT?

Triggered Frame Details

Frame Number

:SENSe:DATA:TELEcom:CAPTure:TSource:FNUMber?

MAC Address

:SENSe:DATA:TELEcom:CAPTure:TSource:SOURce:MAC?

:SENSe:DATA:TELEcom:CAPTure:TSource:DESTination:MAC?

IP Address

:SENSe:DATA:TELEcom:CAPTure:TSource:SOURce:IP?

:SENSe:DATA:TELEcom:CAPTure:TSource:DESTination:IP?

Port

:SENSe:DATA:TELEcom:CAPTure:TSource:SOURce:PORT?

:SENSe:DATA:TELEcom:CAPTure:TSource:DESTination:PORT?

This chapter presents detailed information of the SCPI commands and queries supported by the 88xx/8xx.



IMPORTANT

Since the FTB-1v2, FTB-1v2 Pro, FTB-2, FTB-2 Pro, FTB-4 Pro, LTB-2, and LTB-8 can house many instruments, you must explicitly specify which instrument you want to remotely control.

You must add the following mnemonic at the beginning of any command or query that you send to an instrument (except for IEEE 488.2 and platform commands):

LINStrument<LogicalInstrumentPos>:

where <LogicalInstrumentPos> corresponds to the LINS number given to the module.

For information on modifying unit identification, refer to the platform user guide.



IMPORTANT

For SCPI commands containing the ODU[1..n] key, use:

ODU100 for ODU0

ODU101 for ODUflex.

For commands containing the OPU[1..n] key, use:

OPU100 for OPU0

OPU101 for OPUflex.

Test Information and Control

:CONFig:DATA:TELecom:LOAD	
Description	This command loads a previously saved test configuration settings. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Load
Syntax	:CONFig:DATA:TELecom:LOAD <wsp><Path>
Parameter(s)	Path: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the file name.
Example(s)	CONF:DATA:TEL:LOAD C:/CONFig0.cfg
See Also	CONFig:DATA:TELecom:SAVE

:CONFig:DATA:TELecom:SAVE

Description	This command saves the current test configuration settings. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Save
Syntax	:CONFig:DATA:TELecom:SAVE <wsp> <Path>
Parameter(s)	Path: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the file name.
Example(s)	CONF:DATA:TEL:SAVE C:CONFig0.cfg
See Also	CONFig:DATA:TELecom:LOAD

:CONFIg:TIME:FORMat	
Description	This command sets the current Date Time Format. At *RST condition, the default value is "12 Hours". Note: This command is used to change the date time format for other commands. Any other commands executed after this command will be using the current date time format selected by this command.
Syntax	:CONFIg:TIME:FORMat <wsp><Duration>
Parameter(s)	Duration: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the current time format. 12H: set the current time format to "AM / PM" 24H: set the current time format to "24 hours"
Example(s)	CONF:TIME:FORMAT 24H SOUR:DATA:TEL:TIMER:START?

:CONFIg:TIME:FORMat?	
Description	This query returns the current Date Time Format. At *RST condition, the default value is "12 Hours".
Syntax	:CONFIg:TIME:FORMat?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Gets the current time format. 12H: the current time format is "AM / PM" 24H: the current time format is "24 hours"
Example(s)	CONF:TIME:FORMAT 24H SOUR:DATA:TEL:TIMER:START?

:CONFig:WAIT:TIME	
Description	This command is used to insert a delay between commands. Execution of this command after a command will delay the execution of the next command by the specified time. This command is an event and is not associated with an *RST condition or a query form.
Syntax	:CONFig:WAIT:TIME <wsp><Duration>
Parameter(s)	Duration: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the wait time duration in milliseconds.
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ITYP LANE4X10 CONF:WAIT:TIME 3000 SOUR:DATA:TEL:ITYP?

:FETCh:DATA:TELecom:AlarmERRor:CURRent?

Description	This query returns the list of currently active alarms and errors. At *RST condition, this value is set to device-dependent.
Syntax	:FETCh:DATA:TELecom:AlarmERRor:CURRent?
Response Syntax	<Alarms_Errors>
Response(s)	Alarms_Errors: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the list of currently active alarms and errors.
Example(s)	FETC:DATA:TEL:AERR:CURR?

:FETCh:DATA:TELecom:AlarmERRor:HISTory?	
Description	This query returns the status of history of global alarms and errors. At *RST condition, this value is set to device-dependent.
Syntax	:FETCh:DATA:TELecom:AlarmERRor:HISTory?
Response Syntax	<Alarms_Errors>
Response(s)	Alarms_Errors: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the history status of the global alarm/error, PRESENT, indicates that at least one alarm/error has occurred. ABSENT, indicates that no alarm/error occurred.
Example(s)	FETC:DATA:TEL:AERR:HIST?

:FETCh:DATA:TELeom:MODUle:DETail:AHRevision?

Description	This query returns the assembly hardware revision. At *RST condition, this value is set to device-dependent. Navigation Path: Application buttons > About button > Module Details > Assembly Hardware Revision
Syntax	:FETCh:DATA:TELeom:MODUle:DETail:AHRevision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Assembly hardware revision.
Example(s)	FETC:DATA:TEL:MOD:DET:KHR?
See Also	FETCh:DATA:TELeom:MODUle:DETail:MID?

:FETCh:DATA:TELEcom:MODule:DETail:CDATe?	
Description	This query returns the calibration date. At *RST condition, this value is set to device-dependent. Navigation Path: Application buttons > About button > Module Details > Calibration Date
Syntax	:FETCh:DATA:TELEcom:MODule:DETail:CDATe?
Response Syntax	<DateTime>
Response(s)	DateTime: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Calibration Date.
Example(s)	FETC:DATA:TEL:MOD:DET:CDAT?
See Also	FETCh:DATA:TELEcom:MODule:DETail:CDATe?

:FETCh:DATA:TELecom:MODUle:DETAils:MID?

Description	This query returns the module ID. At *RST condition, this value is set to device-dependent. Navigation Path: Application buttons > About button > Module Details > Module ID
Syntax	:FETCh:DATA:TELecom:MODUle:DETAils:MID?
Response Syntax	<ModuleId>
Response(s)	ModuleId: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Module Id.
Example(s)	FETC:DATA:TEL:MOD:DET:MID?
See Also	FETCh:DATA:TELecom:MODUle:DETAils:SPVersion?

:FETCh:DATA:TELecom:MODUle:DETailS:SNUMber?

Description	This query returns the module serial number. At *RST condition, this value is set to device-dependent. Navigation Path: Application buttons > About button > Module Details > Serial Number
Syntax	:FETCh:DATA:TELecom:MODUle:DETailS:SNUMber?
Response Syntax	<Serial Number>
Response(s)	Serial Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Module serial number.
Example(s)	FETC:DATA:TEL:MOD:DET:SNUM?
See Also	FETCh:DATA:TELecom:MODUle:DETailS:AHRevision?

:FETCh:DATA:TELEcom:MODule:DETail:SPVersion?

Description	This query returns the software product version. At *RST condition, this value is set to device-dependent. Navigation Path: Application buttons > About button > Module Details > Software Product Version
Syntax	:FETCh:DATA:TELEcom:MODule:DETail:SPVersion?
Response Syntax	<Version>
Response(s)	Version: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Software Product version.
Example(s)	FETC:DATA:TEL:MOD:DET:SPV?
See Also	FETCh:DATA:TELEcom:MODule:DETail:SNUMber?

:FETCh:DATA:TELecom:OPTical:LIVE:POWer:STATus?	
Description	This query returns the status of the optical receiver power. At *RST condition, this value is device dependent. Navigation Path: Status Bar
Syntax	:FETCh:DATA:TELecom:OPTical:LIVE:POWer:STATus?
Response Syntax	<PowerStatus>
Response(s)	PowerStatus: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the receiver power. LOS: Loss Of Signal INRANGE: Power is in range OUTOFRANGE: Power is out of range CLOSETODAMAGE: Device is close to damage
Example(s)	FETC:DATA:TEL:OPT:LIVE:POW:STAT?
See Also	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE?

:FETCh:DATA:TELecom:OPTical:LIVE:POWer?

Description	This query returns the value of the optical receiver power. At *RST condition, this value is device dependent. Navigation Path: Status Bar
Syntax	:FETCh:DATA:TELecom:OPTical:LIVE:POWer?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of the receiver power.
Example(s)	FETC:DATA:TEL:OPT:LIVE:POW?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:FETCh:DATA:TELeom:TEST:TIME?	
Description	This query returns the time elapsed since the beginning of the test. At *RST condition, this value is set to device-dependent. Navigation Path: Global Indicator > Time
Syntax	:FETCh:DATA:TELeom:TEST:TIME?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the time elapsed since the beginning of the test.
Example(s)	SOUR:DATA:TEL:TEST ON FETC:DATA:TEL:TEST:TIME?
See Also	FETCh:DATA:TELeom:LOGGer:EVENTs?

:OUTPut:TELEcom:LASer	
Description	This command enables/disables the laser. Applies to all lanes for parallel interfaces. At *RST condition, this value is set to ON. Navigation Path: Test Control > Laser button
Syntax	:OUTPut:TELEcom:LASer <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the laser. ON: Enabled OFF: Disabled
Response Syntax	<Time>
Example(s)	OUTP:TEL:LAS ON OUTP:TEL:LAS? Returns: 1
See Also	SENSe:DATA:TELEcom:ALASer

:OUTPut:TELecom:LASer?	
Description	This query returns enable/disable status of the laser; for all lanes for parallel interfaces At *RST condition, this value is set to ON. Navigation Path: Test Control > Laser button
Syntax	:OUTPut:TELecom:LASer?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the laser. 1, laser is enabled. 0, laser is disabled.
Example(s)	OUTP:TEL:LAS ON OUTP:TEL:LAS? Returns: 1
See Also	OUTPut:TELecom:LASer SENSe:DATA:TELecom:ALASer

:SOURce:DATA:TELecom:ControlCHAracter:MODE

Description	This command selects the control character operation mode for all trace commands/queries. At *RST condition, this value is set to STANDARD.
Syntax	:SOURce:DATA:TELecom:ControlCHAracter:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the character operation mode: STANdard: follows the G.709 standard. For queries, it transforms 'nul' characters into spaces. LITeRal: uses T.50 control characters. Control characters can be entered in commands and are displayed for queries.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CCHA:MODE LITERAL SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16 <NUL> <NUL>testing SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16? Returns: <NUL> <NUL>testing<NUL> <NUL> <NUL> <NUL> <NUL> <NUL>
See Also	LINS[1..n]:SOURce:DATA:TELecom:CCHA:MODE?

:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Description	This query returns the control character operation mode for all trace commands/queries. At *RST condition, this value is set to STANDARD.
Syntax	:SOURce:DATA:TELecom:ControlCHAracter:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the character operation mode: STANDARD: follows the G.709 standard. For queries, it transforms 'nul' characters into spaces. LITERAL: uses T.50 control characters. Control characters can be entered in commands and are displayed for queries.
Example(s)	SOUR:DATA:TEL:CCHA:MODE LITERAL SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16 <NUL> <NUL>testing SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16? Returns: <NUL> <NUL>testing<NUL> <NUL> <NUL> <NUL> <NUL> <NUL> <NUL>
See Also	LINS[1..n]:SOURce:DATA:TELecom:CCHA:MODE

:SOURce:DATA:TELEcom:ETHernet:STReam:STATus

Description	This command enables/disables the transmission for all streams/clients. At *RST condition, this value is set to OFF. Navigation Path: Test Control > TX button
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:STATus <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the transmission: ON: Enables the transmission. OFF: Disables the transmission.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:STAT ON SOUR:DATA:TEL:ETH:STR:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ENABled

:SOURce:DATA:TELEcom:ETHernet:STReam:STATus?	
Description	This query returns the enables/disables status of the transmission for all streams/clients. At *RST condition, this value is set to OFF. Navigation Path: Test Control > TX button
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable transmission status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:STA ON SOUR:DATA:TEL:ETH:STR:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ENABled?

:SOURce:DATA:TELEcom:RESet	
Description	This command clears the results, statistics, and logger content. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Reset button
Syntax	:SOURce:DATA:TELEcom:RESet
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:RES
See Also	SOURce:DATA:TELEcom:REStore:DEFault

:SOURce:DATA:TELecom:SONet:TEST:TYPE	
Description	This command selects DSn/PDH BERT or NI/CSU Emulation test application. Note that for other test applications, the command SOURce:DATA:TELecom:TEST:TYPE must be used. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:SONet:TEST:TYPE <wsp><Ttype>
Parameter(s)	Ttype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the application type: DSNPdHBERT: DSn/PDH BERT NICsUemulation: NI/CSU Emulation SONeTSdHBERT: SONET/SDH BERT (the command SOURce:DATA:TELecom:TEST:TYPE must be used)
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SON:TEST:TYPE DSNPDHBERT SOUR:DATA:TEL:SON:TEST:TYPE? Returns: DSNPDHBERT
See Also	SOURce:DATA:TELecom:TAPplication:TEST:TYPE? SOURce:DATA:TELecom:TEST:TYPE

:SOURce:DATA:TELecom:SONet:TEST:TYPE?

Description	The query returns the selected application type which is either DSn/PDH BERT or NI/CSU Emulation. Note that for other test applications, the command SOURce:DATA:TELecom:TEST:TYPE? must be used. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:SONet:TEST:TYPE?
Response Syntax	<Ttype>
Response(s)	Ttype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the application type: DSNPDHBERT: DSn/PDH BERT NICSUemulation: NI/CSU Emulation SONETSDHBERT: SONET/SDH BERT (the command SOURce:DATA:TELecom:TEST:TYPE? must be used)
Example(s)	SOUR:DATA:TEL:SON:TEST:TYPE DSNPDHBERT SOUR:DATA:TEL:SON:TEST:TYPE? Returns: DSNPDHBERT
See Also	SOURce:DATA:TELecom:TAPplication:TEST:TYPE SOURce:DATA:TELecom:TEST:TYPE?

:SOURce:DATA:TELecom:TEST	
Description	This command starts and stops the test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Start/Stop button
Syntax	:SOURce:DATA:TELecom:TEST <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts or stops the test. ON: Starts the test OFF: Stops the test
Response Syntax	<Ttype>
Example(s)	SOUR:DATA:TEL:TEST ON SOUR:DATA:TEL:TEST? Returns: 1
See Also	SOURce:DATA:TELecom:TEST?

:SOURce:DATA:TELecom:TEST:TYPE

Description	This command selects the test application. Note that for DS_n/PDH BERT and NI/CSU Emulation, the command SOURce:DATA:TELecom:SONet:TEST:TYPE must be used. At *RST condition, this value is set to EtherBERT. Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:TEST:TYPE <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the test type. 1588PTP: 1588 PTP CABLe_{test}: Cable Test CPRI: CPRI/OBSAI BERT EBERT: EtherBERT ETHERSAM: EtherSAM (Y.1564) FLEXEBERT: FlexE BERT FLEXOBERT: FlexO BERT FCBERT: FC BERT ISAM: iSAM MCOTN: Multi-Channel OTN OAM: Carrier Ethernet OAM OTNBERT: OTN BERT OTNSONETSDHBERT: OTN SONET/SDH BERT RFC2544: RFC 2544 RFC6349: RFC 6349 SLOopback: Smart Loopback SONETSDHBERT: SONET/SDH BERT SONETSDHDSNPDBERT: SONET/SDH - DS_n/PDH BERT SYNCE: SyncE TCPThroughput: TCP Throughput THROUGHMODE: Through Mode TMONGEN: Traffic Gen & Mon IOPTICS: IOptics DCOBERT: DCOBERT

:SOURce:DATA:TELecom:TEST:TYPE	
Response Syntax	<Ttype>
Example(s)	SOUR:DATA:TEL:TEST:TYPE EBERT SOUR:DATA:TEL:TEST:TYPE? Returns: EBERT
See Also	SOURce:DATA:TELecom:TEST:TYPE? SOURce:DATA:TELecom:SONet:TEST:TYPE

:SOURce:DATA:TELeom:TEST:TYPE?

Description	The query returns the test application. At *RST condition, this value is set to EtherBERT. Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELeom:TEST:TYPE?
Response Syntax	<Type>

:SOURce:DATA:TELecom:TEST:TYPE?	
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test type. 15: DS_n/PDH BERT 16: NI/CSU Emulation 1588PTP: 1588 PTP CABLETEST: Cable Test CPRI: CPRI/OBSAI BERT EBERT: EtherBERT ETHERSAM: EtherSAM (Y.1564) FLEXEBERT: FlexE BERT FLEXOBERT: FlexO BERT FCBERT: FC BERT ISAM: iSAM MCOTN: Multi-Channel OTN OAM: Carrier Ethernet OAM OTNBERT: OTN BERT OTNSONETSDHBERT: OTN SONET/SDH BERT RFC2544: RFC 2544 RFC6349: RFC 6349 SLOopback: Smart Loopback SONETSDHBERT: SONET/SDH BERT SONETSDHDSNPDBERT: SONET/SDH - DS_n/PDH BERT SYNCE: SyncE TCPTHROUGHPUT: TCP Throughput THROUGHMODE: Through Mode TMONGEN: Traffic Gen & Mon IOPTICS: IOptics DCOBERT: DCOBERT
Example(s)	SOUR:DATA:TEL:TEST:TYPE EBERT SOUR:DATA:TEL:TEST:TYPE? Returns: EBERT

:SOURce:DATA:TELecom:TEST:TYPE?

See Also	SOURce:DATA:TELecom:TEST:TYPE
	SOURce:DATA:TELecom:SONet:TEST:TYPE

:SOURce:DATA:TELecom:TEST?	
Description	This query returns the enable/disable status of test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Start/Stop button
Syntax	:SOURce:DATA:TELecom:TEST?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the test. 1: indicates the test is started. 0: indicates the test is stoped.
Example(s)	SOUR:DATA:TEL:TEST ON SOUR:DATA:TEL:TEST? Returns: 1
See Also	SOURce:DATA:TELecom:TEST

Test Configurator

:FETCh:DATA:TELecom:OPTical:MODule:STATus?

Description	This query returns the status for the optical module validation for high rate interfaces. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator
Syntax	:FETCh:DATA:TELecom:OPTical:MODule:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the optical module validation: NOPTicalModule: No optical module VALidating: Validating POWerexceed: Power exceeded VALid: Valid transceiver INValid: Invalid transceiver UNABletovalidate: , Unable to validate the transceiver MAX: MAX is selected NoOpticalAdaptor: No optical adaptor
Example(s)	FETC:DATA:TEL:OPT:MOD:STAT?
See Also	FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?

Description	This query returns the status of transaction faults seen on any transceiver involved in the test. At *RST condition, this value is set to ABSENT. Navigation Path: Setup > Test Configurator
Syntax	:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?[<wsp><Direction>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For decoupled tests, this parameter specifies the direction for which the transaction faults are queried: RX: Receive direction TX: Transmit direction
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of transaction faults seen on any transceiver involved in the test: ABSENT: No transaction faults seen PRESENT: Some transaction faults seen
Example(s)	FETCH:DATA:TEL:TRAN:TFA:STAT?
See Also	SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABLE SOURce:DATA:TELecom:PORT

Modify Structure

:FETCh:DATA:TELecom:DSNPdh:CLient?

Description	This query returns the DSN/PDH client type. At *RST condition, this value is set to Pattern. Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:FETCh:DATA:TELecom:DSNPdh:CLient?
Response Syntax	<Client>
Response(s)	Client: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the client type for DSN/PDH BERT application. PATTERN, Returns PATTERN as client type.
Example(s)	FETC:DATA:TEL:DSNPdh:CLient? Returns: PATTERN
See Also	FETCh:DATA:TELecom:SDHSonet:FRAMing?

:FETCh:DATA:TELecom:DSNPdh:TYPE?	
Description	This query returns the DSn/PDH multiplexing for decoupled test. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > Modify Structure > RX > DSn/PDH Multiplexing Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DSn/PDH
Syntax	:FETCh:DATA:TELecom:DSNPdh:TYPE?
Response Syntax	<Type>

:FETCh:DATA:TELecom:DSNPdh:TYPE?

Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the DS_n/PDH Multiplexing or Embedded DS_n/PDH. DS_n/PDH Multiplexing: DS1: DS1 DS3: DS3 DS3DS1: DS3/DS1 DS3E1: DS3/E1 E1: E1 E3: E3 E3E2E1: E3/E2/E1 E4: E4 E4E3: E4/E3 E4E3E2: E4/E3/E2 E4E3E2E1: E4/E3/E2/E1 Embedded DS_n/PDH: DS1: DS1 DS3: DS3 E1: E1 E3: E3 E4: E4
Example(s)	FETC:DATA:TELecom:DSNPdh:TYPE?
See Also	SOURce:DATA:TELecom:OTN:FRAMing SOURce:DATA:TELecom:OTN:FRAMing?

:FETCh:DATA:TELecom:SDHSonet:CLient?	
Description	This query returns the SONET/SDH client type. At *RST condition, this value is set to Pattern. Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:FETCh:DATA:TELecom:SDHSonet:CLient?
Response Syntax	<Client>
Response(s)	Client: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the client type for SONET/SDH BERT application. PATTERN, Returns PATTERN as client type.
Example(s)	FETC:DATA:TEL:SDHS:CLI? Returns: PATTERN
See Also	FETCh:DATA:TELecom:SDHSonet:FRAMing?

:FETCh:DATA:TELEcom:SDHSonet:FRAMing?

Description	This query returns the SONET/SDH framing. At *RST condition, this value is set to Framed. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:FETCh:DATA:TELEcom:SDHSonet:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the framing. FRAMED
Example(s)	FETC:DATA:TEL:SDHS:FRAM? Returns: FRAMED
See Also	FETCh:DATA:TELEcom:SONet:LINE:PM:STATus?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver	
Description	This command sets the RX interface/rate connector for Decoupled or Dual RX test. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > RX > Connector
Syntax	:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver <wsp><Connector>
Parameter(s)	Connector: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transceiver mode for the instrument. BANTAM BNC RJ48C: RJ48C SFPPLUS: SFP+ Port 2 SFP28A1: SFP28 Port A1 SFP28A2: SFP28 Port A2 SFP28B1: SFP28 Port B1 SFP28B2: SFP28 Port B2
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:ETH:PORT:TRAN BNC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Description	This query returns the RX interface/rate connector for Decoupled or Dual RX test. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > RX > Connector
Syntax	:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?
Response Syntax	<Connector>
Response(s)	Connector: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface/rate connector. BANTAM BNC RJ48C: RJ48C SFPPLUS: SFP+ Port 1 SFP28A1: SFP28 Port A1 SFP28A2: SFP28 Port A2 SFP28B1: SFP28 Port B1 SFP28B2: SFP28 Port B2
Example(s)	SENS:DATA:TEL:ETH:PORT:TRAN BNC SENS:DATA:TEL:ETH:PORT:TRAN? Returns: BNC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELeom:ITYPE	
Description	This command sets the RX interface/rate for Decoupled or Dual RX test. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > RX > Interface/Rate
Syntax	:SENSe:DATA:TELeom:ITYPE <wsp><Interface>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the RX interface/rate. DS1, DS3 E1, E2, E3, E4 OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64 STS1E, STS3E: respectively STS-1e, STS-3e
Response Syntax	<Connector>
Example(s)	SENS:DATA:TEL:ITYP DS3
See Also	SOURce:DATA:TELeom:TEST

:SENSe:DATA:TELeom:ITYPe?

Description	This query returns the RX interface/rate for Decoupled or Dual RX test. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > RX > Interface/Rate
Syntax	:SENSe:DATA:TELeom:ITYPe?
Response Syntax	<Interface>
Response(s)	Interface: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the RX interface/rate. DS1, DS3 E1, E2, E3, E4 OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64 STS1E, STS3E: respectively STS-1e, STS-3e
Example(s)	SENS:DATA:TEL:ITYP DS3 SENS:DATA:TEL:ITYP? Returns: DS3
See Also	SOURce:DATA:TELeom:TEST?

:SENSe:DATA:TELeom:SDHSonet:MULTiplex:TYPE	
Description	This command select the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications for RX component. Navigation Path: Setup > Text Configurator > Modify Structure > RX > SONET/SDH Multiplexing
Syntax	:SENSe:DATA:TELeom:SDHSonet:MULTiplex:TYPE <wsp><Type>

:SENSe:DATA:TELecom:SDHSonet:MULTIplex:TYPE

Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select SONET/SDH Multiplexing. AU3: AU-3 AU3TU11: AU-3/TU-11 AU3TU12: AU-3/TU-12 AU4: AU-4 AU4TU3: AU-4/TU-3 AU4TU11: AU-4/TU-11 AU4TU12: AU-4/TU-12 AU44C: AU-4-4c AU416C: AU-4-16c AU464C: AU-4-64c AU4256C: AU-4-256c STS1: STS-1 STS1VT2: STS-1/VT-2 STS1VT15: STS-1/VT-1.5 STS3C: STS-3c STS12C: STS-12c STS48C: STS-48c STS192C: STS-192c STS768C: STS-768c
Response Syntax	<Interface>
Example(s)	SENS:DATA:TEL:SDHS:MULT:TYPE AU3TU12 SENS:DATA:TEL:SDHS:MULT:TYPE? Returns: AU3TU12

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Description	This query returns the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications for RX component. Navigation Path: Setup > Text Configurator > Modify Structure > RX > SONET/SDH Multiplexing
Syntax	:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Gets SONET/SDH Multiplexing. AU3: AU-3 AU3TU11: AU-3/TU-11 AU3TU12: AU-3/TU-12 AU4: AU-4 AU4TU3: AU-4/TU-3 AU4TU11: AU-4/TU-11 AU4TU12: AU-4/TU-12 AU44C: AU-4-4c AU416C: AU-4-16c AU464C: AU-4-64c AU4256C: AU-4-256c STS1: STS-1 STS1VT2: STS-1/VT-2 STS1VT15: STS-1/VT-1.5 STS3C: STS-3c STS12C: STS-12c STS48C: STS-48c STS192C: STS-192c STS768C: STS-768c
Example(s)	SENS:DATA:TEL:SDHS:MULT:TYPE AU3TU12 SENS:DATA:TEL:SDHS:MULT:TYPE? Returns: AU3TU12

:SOURce:DATA:TELEcom:CPRI:EMULation:MODE	
Description	This command sets the Emulation Mode. At *RST condition, this value is set to Base Station. Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELEcom:CPRI:EMULation:MODE[<wsp> <Emulation Mode>]
Parameter(s)	Emulation Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Emulation Mode Type value. BTS: Base station RRH: Remote Radio Head
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CPRI:EMUL:MODE RRH
See Also	SOURce:DATA:TELEcom:CPRI:FRAMing:TYPE

:SOURce:DATA:TELeom:CPRI:EMULation:MODE?

Description	This query returns the Emulation Mode. At *RST condition, this value is set to Base Station. Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELeom:CPRI:EMULation:MODE?
Response Syntax	<Emulation Mode>
Response(s)	Emulation Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Emulation Mode type. BTS: Base station RRH: Remote Radio Head
Example(s)	SOUR:DATA:TEL:CPRI:EMUL:MODE?
See Also	SOURce:DATA:TELeom:CPRI:FRAMing:TYPE?

:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE	
Description	This command sets the CPRI Framing type. At *RST condition, this value is set to Framed L2. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE[<wsp><Framing>]
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Framing Type value. For CPRI: FRAMEDL2: Framed L2 UNFRAMED: Unframed For OBSAI: OBSAI_FRAMEDL2: Framed L2 OBSAI_UNFRAMED: Unframed
Response Syntax	<Emulation Mode>
Example(s)	SOUR:DATA:TEL:CPRI:FRAM:TYPE FRAMEDL2
See Also	SOURce:DATA:TELecom:CPRI:EMULation:MODE

:SOURce:DATA:TELeom:CPRI:FRAMing:TYPE?	
Description	This query returns the CPRI Framing type. At *RST condition, this value is set to Framed L2. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELeom:CPRI:FRAMing:TYPE?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Framing type. For CPRI: FRAMEDL2: Framed L2 UNFRAMED: Unframed For OBSAI: OBSAI_FRAMEDL2: Framed L2 OBSAI_UNFRAMED: Unframed
Example(s)	SOUR:DATA:TEL:CPRI:FRAM:TYPE?
See Also	SOURce:DATA:TELeom:CPRI:EMULation:MODE?

:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE	
Description	This command sets the Vendor. At *RST condition, this value is set to Generic. Navigation Path: Setup > Test Configurator > Modify Structure > Vendor
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE <wsp><Vendor>
Parameter(s)	Vendor: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Vendor value. GENERIC : Generic ERICSSON : Ericsson SAMSUNG : Samsung
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VEND:TYPE GENERIC
See Also	SOURce:DATA:TELecom:CPRI:FRAMing:TYPE

:SOURce:DATA:TELeom:CPRI:OBSai:VENDor:TYPE?

Description	This command sets the Vendor. At *RST condition, this value is set to Generic. Navigation Path: Setup > Test Configurator > Modify Structure > Vendor
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:VENDor:TYPE?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Sets the Vendor value. GENERIC : Generic ERICSSON : Ericsson SAMSUNG : Samsung
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VEND:TYPE?
See Also	SOURce:DATA:TELeom:CPRI:FRAMing:TYPE?

:SOURce:DATA:TELecom:DSNPdh:TYPE	
Description	This command selects the DS_n/PDH multiplexing or embedded DS_n/PDH. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > Modify Structure > DS_n/PDH Multiplexing Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DS_n/PDH
Syntax	:SOURce:DATA:TELecom:DSNPdh:TYPE <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the DS_n/PDH Multiplexing or Embedded DS_n/PDH. DS_n/PDH Multiplexing: DS1: DS1 DS3: DS3 DS3DS1: DS3/DS1 DS3E1: DS3/E1 E1: E1 E3: E3 E3E2E1: E3/E2/E1 E4: E4 E4E3: E4/E3 E4E3E2: E4/E3/E2 E4E3E2E1: E4/E3/E2/E1 Embedded DS_n/PDH: DS1: DS1 DS3: DS3 E1: E1 E3: E3 E4: E4

:SOURce:DATA:TELecom:DSNPdh:TYPE

Response Syntax	<Vendor>
Example(s)	SOUR:DATA:TEL:DSNP:TYPE DS3E1
See Also	SOURce:DATA:TELecom:OTN:FRAMing SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELeom:DSNPdh:TYPE?	
Description	This query returns the DS_n/PDH multiplexing or embedded DS_n/PDH. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > Modify Structure > DS_n/PDH Multiplexing Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DS_n/PDH
Syntax	:SOURce:DATA:TELeom:DSNPdh:TYPE?
Response Syntax	<DS _n Type>

:SOURce:DATA:TELecom:DSNPdh:TYPE?

Response(s)	DSnType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the DSn/PDH Multiplexing or Embedded DSn/PDH. DSn/PDH Multiplexing: DS1: DS1 DS3: DS3 DS3DS1: DS3/DS1 DS3E1: DS3/E1 E1: E1 E3: E3 E3E2E1: E3/E2/E1 E4: E4 E4E3: E4/E3 E4E3E2: E4/E3/E2 E4E3E2E1: E4/E3/E2/E1 Embedded DSn/PDH: DS1: DS1 DS3: DS3 E1: E1 E3: E3 E4: E4
Example(s)	SOUR:DATA:TEL:DSNP:TYPE DS3E1 SOUR:DATA:TEL:DSNP:TYPE? Returns: DS3E1
See Also	SOURce:DATA:TELecom:OTN:FRAMing SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELEcom:ETHernet:BERT:FRAMing	
Description	This command sets the framing type. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELEcom:ETHernet:BERT:FRAMing <wsp><Layer>
Parameter(s)	Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the framing type for BERT application. FRAMEDLAYER1: Framed Layer 1 FRAMEDLAYER2: Framed Layer 2 FRAMEDLAYER3AND4: Framed Layer 3/4 UNFRAMEDPCS: 20 Unframed PCS UNFRAMEDCAUI4: 4 Unframed CAUI-4 UNFRAMEDXLAUI: 4 Unframed XLAUI UNFRAMEDWITHOUTSYNC: Unframed without Sync UNFRAMEDWITHSYNC: Unframed With Sync 2UNFRAMED50GAUI2: 2 Unframed 50GAUI-2 16UNFRAMED400GAUI8: 16 Unframed 400GAUI-8 8UNFRAMED400GAUI8: 8 Unframed 400GAUI-8 4UNFRAMED200GAUI4: 4 Unframed 200GAUI-4 8UNFRAMED200GAUI4: 8 Unframed 200GAUI-4 8UNFRAMED800GAUI8: 8 Unframed 800GAUI-8
Response Syntax	<DSnType>
Example(s)	SOUR:DATA:TEL:ETH:BERT:FRAM FRAMEDLAYER2 SOUR:DATA:TEL:ETH:BERT:FRAM? Returns: FRAMEDLAYER2
See Also	SOURce:DATA:TELEcom:TEST:TYPE SOURce:DATA:TELEcom:ETHernet:BERT:FRAMing?

:SOURce:DATA:TELeom:ETHernet:BERT:FRAMing?

Description	This query returns the framing type. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELeom:ETHernet:BERT:FRAMing?
Response Syntax	<Layer>
Response(s)	Layer: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the framing type for BERT application. FRAMEDLAYER1: Framed Layer 1 FRAMEDLAYER2: Framed Layer 2 FRAMEDLAYER3AND4: Framed Layer 3/4 UNFRAMEDPCS: 20 Unframed PCS UNFRAMEDCAUI4: 4 Unframed CAUI-4 UNFRAMEDXLAUI: 4 Unframed XLAUI UNFRAMEDWITHOUTSYNC: Unframed without Sync UNFRAMEDWITHSYNC: Unframed With Sync 2UNFRAMED50GAUI2: 2 Unframed 50GAUI-2 16UNFRAMED400GAUI8: 16 Unframed 400GAUI-8 8UNFRAMED400GAUI8: 8 Unframed 400GAUI-8 4UNFRAMED200GAUI4: 4 Unframed 200GAUI-4 8UNFRAMED200GAUI4: 8 Unframed 200GAUI-4 8UNFRAMED800GAUI8: 8 Unframed 800GAUI-8
Example(s)	SOUR:DATA:TEL:ETH:BERT:FRAM FRAMEDLAYER2 SOUR:DATA:TEL:ETH:BERT:FRAM? Returns: FRAMEDLAYER2
See Also	SOURce:DATA:TELeom:TEST:TYPE SOURce:DATA:TELeom:ETHernet:BERT:FRAMing

:SOURce:DATA:TELEcom:ETHernet:HINTerface	
Description	This command sets the Host interface type. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Host Interface
Syntax	:SOURce:DATA:TELEcom:ETHernet:HINTerface <wsp> <Interface>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the host interface type. 400GAUI4: 400GAUI-4 400GAUI8: 400GAUI-8
Response Syntax	<Layer>
Example(s)	SOUR:DATA:TEL:ETH:HINT 400GAUI8 SOUR:DATA:TEL:ETH:HINT? Returns: 400GAUI8
See Also	SOURce:DATA:TELEcom:TEST

:SOURce:DATA:TELEcom:ETHernet:HINTerface?

Description	This query returns the Host interface type. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Host Interface
Syntax	:SOURce:DATA:TELEcom:ETHernet:HINTerface?
Response Syntax	<Host Interface>
Response(s)	Host Interface: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the host interface type. 400GAUI8: 400GAUI-8 400GAUI4: 400GAUI-4
Example(s)	SOUR:DATA:TEL:ETH:HINT 400GAUI4 SOUR:DATA:TEL:ETH:HINT? Returns: 400GAUI4
See Also	SOURce:DATA:TELEcom:TEST?

:SOURce:DATA:TELecom:ETHernet:PHY:TYPE	
Description	This command sets the PHY type. At *RST condition, this value is set to OTHERS. Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:ETHernet:PHY:TYPE <wsp><PhyType>
Parameter(s)	PhyType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. CLR4: CLR4 CWDM4: CWDM4 OTHERS: Other SR4: SR4 LR4_ER4: LR4/ER4 AOC: AOC DAC: DAC OPTICAL: Optical DR1_FR1_LR1: DR1/FR1/LR1 SRBD: SRBD
Response Syntax	<Host Interface>
Example(s)	SOUR:DATA:TEL:ETH:PHY:TYPE SR4 SOUR:DATA:TEL:ETH:PHY:TYPE? Returns: SR4
See Also	SOURce:DATA:TELecom:ETHernet:PHY:TYPE

:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Description	This query returns the PHY type. At *RST condition, this value is set to OTHERS. Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?
Response Syntax	<PhyType>
Response(s)	PhyType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the PHY type. CLR4: CLR4 CWDM4: CWDM4 OTHERS: Others SR4: SR4 LR4_ER4: LR4/ AOC: AOC DAC: DAC OPTICAL: Optical DR1_FR1_LR1: DR1/FR1/LR1 SRBD: SRBD
Example(s)	SOUR:DATA:TEL:ETH:PHY:TYPE SR4 SOUR:DATA:TEL:ETH:PHY:TYPE? Returns: SR4
See Also	SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver	
Description	This command selects the physical connector port. At *RST condition, this value is set device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver <wsp><Connector>,[<OptionalConnectorInstance>]
Parameter(s)	Connector: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the physical port. BANTAM BNC CFP4P1: CFP4 Port 1 CFP4A1: CFP4 Port A1 CFP4B1: CFP4 Port B1 OSFPP1: OSFP Port 1 OSFPP2: OSFP Port 2 (Only applicable for modules 88481 and 88482) QSFP1, QSFP2, QSFP3, QSFP4: Respectively QSFP Port 1, Port 2, Port 3, and Port 4. QSFP28A1, QSFP28A2: Respectively QSFP28 Port A1, and Port A2. QSFP28B1, QSFP28B2: Respectively QSFP28 Port B1, and Port B2. QSFP28P1, QSFP28P2, QSFP28P3, QSFP28P4: Respectively QSFP28 Port 1, Port 2, Port 3, and Port 4. QSFP28ADAPTERP1, QSFP28ADAPTERP2, QSFP28ADAPTERP3, QSFP28ADAPTERP4: Respectively QSFP28 (With adapter) Port 1, Port 2, Port 3, and Port 4. QSFP56DDP1, QSFP56DDP2: Respectively QSFP56-DD Port 1, and Port 2.

:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver

Parameter(s)	RJ45: RJ45 Port 1 RJ48C: RJ48C SFPPLUS: SFP+ Port 1 SFPPLUSP2: SFP+ Port 2 SFP28A1, SFP28A2: Respectively SFP28 Port A1, and Port A2. SFP28B1, SFP28B2: Respectively SFP28 Port B1, and Port B2. SFP28RJ45A1, SFP28RJ45A2: Respectively SFP28RJ45 Port A1, and Port A2 SFP28RJ45B1, SFP28RJ45B2: Respectively SFP28RJ45 Port B1, and Port B2 SFPPLUSRJ45P1, SFPPLUSRJ45P2: Respectively SFPPLUSRJ45 Port 1, and Port 2 SFP56DDP1: SFP56DD Port1 OptionalConnectorInstance: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Used in FlexE only, selects the instance for which the connector is set. FIRST: First interface connector of the group from the top, in Modify Structure SECOND: Second interface connector of the group from the top, in Modify Structure THIRD: Third interface connector of the group from the top, in Modify Structure FOURTH: Fourth interface connector of the group from the top, in Modify Structure
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:SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver	
Response Syntax	<PhyType>
Example(s)	SOUR:DATA:TEL:ETH:PORT:TRAN CFP4P1 SOUR:DATA:TEL:ETH:PORT:TRAN? Returns: CFP4P1 FlexE context: SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28A2 FIRST SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28B1 SECOND SOUR:DATA:TEL:ETH:PORT:TRAN? FIRST Returns: QSFP28A2 SOUR:DATA:TEL:ETH:PORT:TRAN? SECOND Returns: QSFP28B1
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Description	This query returns the selected physical connector port. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver? [<wsp><OptionalConnectorInstance>]
Parameter(s)	OptionalConnectorInstance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Used in FlexE only, selects the instance for which the connector is queried. FIRST: First interface connector of the group from the top, in Modify Structure SECOND: Second interface connector of the group from the top, in Modify Structure THIRD: Third interface connector of the group from the top, in Modify Structure FOURTH: Fourth interface connector of the group from the top, in Modify Structure
Response Syntax	<Connector>

:SOURce:DATA:TELEcom:ETHerneT:PORT:TRANsceiver?

Response(s)	Connector: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selected physical port. BANTAM BNC CFP4P1: CFP4 Port 1 CFP4A1: CFP4 Port A1 CFP4B1: CFP4 Port B1 OSFPP1: OSFP Port 1 OSFPP2: OSFP Port 2 (Only for modules 88481 and 88482) QSFP1, QSFP2, QSFP3, QSFP4: Respectively QSFP Port 1, Port 2, Port 3, and Port 4. QSFP28A1, QSFP28A2: Respectively QSFP28 Port A1, and Port A2. QSFP28B1, QSFP28B2: Respectively QSFP28 Port B1, and Port B2. QSFP28P1, QSFP28P2, QSFP28P3, QSFP28P4: Respectively QSFP28 Port 1, Port 2, Port 3, and Port 4. QSFP28ADAPTERP1, QSFP28ADAPTERP2, QSFP28ADAPTERP3, QSFP28ADAPTERP4: Respectively QSFP28 (With adapter) Port 1, Port 2, Port 3, and Port 4. QSFP56DDP1, QSFP56DDP2: QSFP56-DD Port 1, and Port 2. RJ45: RJ45 Port 1 RJ48C: RJ48C SFPPLUS: SFP+ Port 1 SFPPLUSP2: SFP+ Port 2 SFP28A1, SFP28A2: Respectively SFP28 Port A1, and Port A2. SFP28B1, SFP28B2: Respectively SFP28 Port B1, and Port B2. SFP28RJ45A1, SFP28RJ45A2: Respectively SFP28RJ45 Port A1, and Port A2 SFP28RJ45B1, SFP28RJ45B2: Respectively SFP28RJ45 Port B1, and Port B2 SFPPLUSRJ45P1, SFPPLUSRJ45P2: Respectively SFPPLUSRJ45 Port 1, and Port 2 SFP56DDP1: SFP56DD Port1
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:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Example(s)

SOUR:DATA:TEL:ETH:PORT:TRAN CFP4P1
SOUR:DATA:TEL:ETH:PORT:TRAN?
Returns: CFP4P1

FlexE context:

SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28A2 FIRST
SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28B1 SECOND
SOUR:DATA:TEL:ETH:PORT:TRAN? FIRST
Returns: QSFP28A2
SOUR:DATA:TEL:ETH:PORT:TRAN? SECOND
Returns: QSFP28B1

See Also

SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELEcom:ETHernet:SLOopback:TRANsparent:MODE:ENABLE	
Description	This command enables/disables the loopback mode type for Smart Loopback application. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Modify Structure > Transparent
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLOopback:TRANsparent:MODE:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Connector>
Example(s)	SOUR:DATA:TEL:ETH:SLO:TRAN:MODE:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLOopback:TRANsparent:MODE:ENABLE?

Description	This query returns the status of the loopback mode type for Smart Loopback application. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Modify Structure > Transparent
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLOopback:TRANsparent:MODE:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:SLO:TRAN:MODE:ENAB?
See Also	SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:FETHernet:GROup:PTYPE	
Description	This command sets the PHY type for all port in the FlexE group. At *RST condition, this value is set to Others. Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PTYPE <wsp><PhyType>
Parameter(s)	PhyType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. CLR4: CLR4 CWDM4: CWDM4 OTHERS: Others SR4: SR4 LR4_ER4: LR4/ER4 AOC: AOC DR1_FR1_LR1: DR1/FR1/LR1
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:PTYP SR4 SOUR:DATA:TEL:FETH:GRO:PTYP? Returns: SR4
See Also	SOURce:DATA:TELecom:FETHernet:GROup:PTYPE?

:SOURce:DATA:TELeom:FETHernet:GROup:PTYPe?

Description	This query returns the PHY typ for all ports in the FlexE group.. At *RST condition, this value is set to Others. Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELeom:FETHernet:GROup:PTYPe?
Response Syntax	<PhyType>
Response(s)	PhyType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the PHY type: CLR4: CLR4 CWDM4: CWDM4 OTHERS: Others SR4: SR4 LR4_ER4: LR4/ER4 AOC: AOC DR1_FR1_LR1: DR1/FR1/LR1
Example(s)	SOUR:DATA:TEL:FETH:GRO:PTYP SR4 SOUR:DATA:TEL:FETH:GRO:PTYP? Returns: SR4
See Also	SOURce:DATA:TELeom:FETHernet:GROup:PTYPe

:SOURce:DATA:TELEcom:FETHernet:GROup:SIZE	
Description	This command sets the Group Size in Modify Structure of FlexE. At *RST condition, this value is set to 100G. Navigation Path: Setup > Test Configurator > Modify Structure > Group Size
Syntax	:SOURce:DATA:TELEcom:FETHernet:GROup:SIZE[<wsp><Group Size>]
Parameter(s)	Group Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select Group Size as 50G 100G 200G 300G 400G
Response Syntax	<PhyType>
Example(s)	SOUR:DATA:TEL:FETH:GRO:SIZE 100G SOUR:DATA:TEL:FETH:GRO:SIZE? Returns: 100G
See Also	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB

:SOURce:DATA:TELeom:FETHernet:GROup:SIZE?

Description	This command gets the Group Size in Modify Structure of FlexE. At *RST condition, this value is set to 100G. Navigation Path: Setup > Test Configurator > Modify Structure > Group Size
Syntax	:SOURce:DATA:TELeom:FETHernet:GROup:SIZE?
Response Syntax	<Group Size>
Response(s)	Group Size: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Group Size currently in use
Example(s)	SOUR:DATA:TEL:FETH:GRO:SIZE 100G SOUR:DATA:TEL:FETH:GRO:SIZE? Returns: 100G
See Also	SOUR:DATA:TEL:FETH:GRO:CAL?

:SOURce:DATA:TELeom:FETHernet:PORT:SELection	
Description	This command selects the ports to be assigned to a FlexE group. At *RST condition, this value is set to (PORT1, PORT2). Navigation Path: Setup > Test Configurator > Modify Structure > Connector(s)
Syntax	:SOURce:DATA:TELeom:FETHernet:PORT:SELection <wsp><Ports>
Parameter(s)	Ports: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Select port(s) to be assigned to a FlexE group by entering in parantheses each active port separated by a comma as follows: "(FIRST, SECOND, THIRD, FOURTH)", where: FIRST: First interface connector of the group from the top, in Modify Structure SECOND: Second interface connector of the group from the top, in Modify Structure THIRD: Third interface connector of the group from the top, in Modify Structure FOURTH: Fourth interface connector of the group from the top, in Modify Structure Note that the list of active ports should be inclosed in double quotes
Response Syntax	<Group Size>
Example(s)	SOUR:DATA:TEL:FETH:PORT:SEL "(FIRST, SECOND)" SOUR:DATA:TEL:FETH:PORT:SEL? Returns: "(FIRST, SECOND)"
See Also	SOURce:DATA:TELeom:FETHernet:PORT:SELection?

:SOURce:DATA:TELeom:FETHernet:PORT:SElection?

Description	This query returns the ports assigned to a FlexE group. At *RST condition, this value is set to "(FIRST)". Navigation Path: Setup > Test Configurator > Modify Structure > Connector(s)
Syntax	:SOURce:DATA:TELeom:FETHernet:PORT:SElection?
Response Syntax	<Ports>
Response(s)	Ports: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns port(s) assigned to a FlexE group: "(FIRST, SECOND, THIRD, FOURTH)", where: FIRST: First interface connector of the group from the top, in Modify Structure SECOND: Second interface connector of the group from the top, in Modify Structure THIRD: Third interface connector of the group from the top, in Modify Structure FOURTH: Fourth interface connector of the group from the top, in Modify Structure
Example(s)	SOUR:DATA:TEL:FETH:PORT:SEL "(FIRST, FOURTH)" SOUR:DATA:TEL:FETH:PORT:SEL? Returns: "(FIRST, FOURTH)"
See Also	SOURce:DATA:TELeom:FETHernet:PORT:SElection

:SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection	
Description	This command selects the Interface Rate, OTUC Rate and the physical ports to be assigned to a FlexO group. At *RST condition, this value is set to (LANE4X25, OTUC4, (PORT1, PORT2, PORT3, PORT4)). Navigation Path: Setup > Test Configurator > Modify Structure > OTN, Port #
Syntax	:SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection <wsp><Interface>, <OTUC Rate>, <Ports>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. LANE4X25: _100GFlexORs (4 Lanes) [103.125 Gbit/s] LANE4X50: _200GFlexORs (4 Lanes) [212.500 Gbit/s] LANE8X50: _400GFlexORs (8 Lanes) [412.500 Gbit/s] OTUC Rate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO OTUC Rate OTUC1: OTUC1 OTUC2: OTUC2 OTUC3: OTUC3 OTUC4: OTUC4 Ports: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Select all physical port(s) to be assigned to a FlexE group by entering in parantheses each port number separated by a comma as follows: (P1, P2, P3, P4) or (PORT1, PORT2, PORT3, PORT4).
Response Syntax	<Ports>
Example(s)	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL LANE4X25, OTUC1 (P1) SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL? Returns: (LANE4X25, OTUC1, (PORT1))
See Also	SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection?

:SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection?

Description	This query returns the Interface Rate, OTUC Rate and the physical ports assigned to a FlexO group as a coma separated string containing: (Interface Rate, OTUC Rate, (List of Selected Ports)) At *RST condition, this value is set to (LANE4X25, OTUC4, (PORT1, PORT2, PORT3, PORT4)). Navigation Path: Setup > Test Configurator > Modify Structure > OTN, Port #
Syntax	:SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection?
Response Syntax	<Rate And Ports>
Response(s)	Rate And Ports: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return the OTUC Rate and the list of port assigned to a FlexO group.
Example(s)	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL LANE4X25, OTUC1 (P1) SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL? Returns: (LANE4X25, OTUC1, (PORT1))
See Also	SOURce:DATA:TELecom:FOTN:GROUp:RATE:SElection

:SOURce:DATA:TELEcom:ITYPE	
Description	This command sets the interface rate. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Interface
Syntax	:SOURce:DATA:TELEcom:ITYPE <wsp><Interface>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface type. 101001000MELEC: 10/100/1000M Electrical BASETELEC: Base-T Electrical or 10/100/1000M Electrical 100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN, 25GE: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN, 25GE 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G, CPRI243G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.1G, 10.1G, 24.3G DS1, DS3 E1, E2, E3, E4 LANE1X50: 50GE [53.125 Gbit/s] LANE2X4X25: 2 x 100GE (4 Lanes) [103.125 Gbit/s] LANE2X4X50: 2 x 200GE (4 Lanes) [212.500 Gbit/s] LANE4X1X100: 4 x 100GE [106.25 Gbit/s] LANE4X10: OTU3 (4 Lanes) [43.018 Gbit/s] or 40GE (4 Lanes) [41.25 Gbit/s] LANE4X25: OTU4 (4 Lanes) [111.81 Gbit/s] or 100GE (4 Lanes) [103.125 Gbit/s] LANE8X50: 400GE (8 Lanes) [412.500 Gbit/s] LANE4X100: 400GE (4 Lanes) [412.500 Gbit/s] LANE4X50: 200GE (4 Lanes) [212.500 Gbit/s] LANE1X100: 100GE (1 Lane) [106.25 Gbit/s] LANE2X50: 100GE (2 Lanes) [106.25 Gbit/s] LANE8X1X50: 400GE (1 Lane) [53.125 Gbit/s] LANE2X400: 800GE (4 Lane) [425 Gbit/s] LANE8X1X100: 8 x 100GE [106.25 Gbit/s] LANE8X100: 800G (8 Lane) [850 Gbit/s]

:SOURce:DATA:TELecom:ITYPe

Parameter(s)	400ZRDWDMAMP: 400ZR (CFEC, 16QAM, DWDM Amplified) [478.75 Gbit/s] OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s] OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s] STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64 STS1E, STS3E: respectively STS-1e, STS-3e
Response Syntax	<Rate And Ports>
Example(s)	SOUR:DATA:TEL:ITYP LANE4X25 SOUR:DATA:TEL:ITYP? Returns: LANE4X25
See Also	SOURce:DATA:TELecom:TEST

:SOURce:DATA:TELecom:ITYPE?	
Description	This query returns the interface rate. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Interface
Syntax	:SOURce:DATA:TELecom:ITYPE?
Response Syntax	<Interface>

:SOURce:DATA:TELEcom:ITYPE?

Response(s)	Interface: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface type. 101001000MELEC: 10/100/1000M Electrical BASETELEC: Base-T Electrical or 10/100/1000M Electrical 100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN, 25GE: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN, 25GE 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G, CPRI243G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.1G, 10.1G, 24.3G DS1, DS3 E1, E2, E3, E4 LANE1X50: 50GE [53.125 Gbit/s] LANE2X4X25: 2 x 100GE (4 Lanes) [103.125 Gbit/s] LANE2X4X50: 2 x 200GE (4 Lanes) [212.500 Gbit/s] LANE4X1X100: 4 x 100GE [106.25 Gbit/s] LANE4X10: OTU3 (4 Lanes) [43.018 Gbit/s] or 40GE (4 Lanes) [41.25 Gbit/s] LANE4X25: OTU4 (4 Lanes) [111.81 Gbit/s] or 100GE (4 Lanes) [103.125 Gbit/s] LANE8X50: 400GE (8 Lanes) [412.500 Gbit/s] LANE4X50: 200GE (4 Lanes) [212.500 Gbit/s] LANE1X100: 100GE (1 Lane) [106.25 Gbit/s] LANE2X50: 100GE (2 Lanes) [106.25 Gbit/s] LANE8X1X50: 400GE (1 Lane) [53.125 Gbit/s] LANE2x400: 800GE (4 Lane) [425 Gbit/s] LANE8X1X100: 8 x 100GE [106.25 Gbit/s] LANE8X100: 800G (8 Lane) [850 Gbit/s]
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:SOURce:DATA:TELEcom:ITYPE?	
Response(s)	800ZR: 800ZR (OFEC, 16QAM) [945.626804824 Gbit/s] ZR400: 400ZR+ (OFEC, 16QAM) [481.108374 Gbit/s] ZR200: 200ZR+ (OFEC, QPSK) [240.554187 Gbit/s] ZR100: 100ZR+ (OFEC, QPSK) [120.277094 Gbit/s] 400ZRUNAMP: 400ZR (CFEC, 16QAM, Unamplified) [478.75 Gbit/s] 400ZRDWDMAMP: 400ZR (CFEC, 16QAM, DWDM Amplified) [478.75 Gbit/s] OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s] OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s] STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64 STS1E, STS3E: respectively STS-1e, STS-3e
Example(s)	SOUR:DATA:TEL:ITYP LANE4X25 SOUR:DATA:TEL:ITYP? Returns: LANE4X25
See Also	SOURce:DATA:TELEcom:TEST?

:SOURce:DATA:TELeom:LANE

Description	This command sets the LANE number. At *RST condition, this value is set to LANE0. Navigation Path: Setup > Test configurator > Modify Structure > LANE
Syntax	:SOURce:DATA:TELeom:LANE <wsp><LANE>
Parameter(s)	LANE: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. LANE0: LANE0 LANE1: LANE1 LANE2: LANE2 LANE3: LANE3
Response Syntax	<Interface>
Example(s)	SOUR:DATA:TEL:LANE LANE1 SOUR:DATA:TEL:LANE? Returns: LANE1
See Also	SOURce:DATA:TELeom:LANE

:SOURce:DATA:TELeom:LANE?	
Description	This query returns the LANE number. At *RST condition, this value is set to LANE0. Navigation Path: Setup > Test configurator > Modify Structure > LANE
Syntax	:SOURce:DATA:TELeom:LANE?
Response Syntax	<LANE>
Response(s)	LANE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the LANE number. LANE0: LANE0 LANE1: LANE1 LANE2: LANE2 LANE3: LANE3
Example(s)	SOUR:DATA:TEL:LANE LANE1 SOUR:DATA:TEL:LANE? Returns: LANE1
See Also	SOURce;DATA:TELeom:LANE?

:SOURce:DATA:TELecom:ODU:TYPE

Description	This command selects the OTN Multiplexing including payload type. At *RST condition, this value is set to device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > OTN Multiplexing
Syntax	:SOURce:DATA:TELecom:ODU:TYPE <wsp><Multiplexing>
Parameter(s)	Multiplexing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OTN Multiplexing. NOTE: Make sure the Client is properly set before using this command. ODU1: ODU1 for Pattern client O1ODU0: ODU1-PT20/ODU0 for Pattern client O1ODU0GMP: ODU1-PT20/ODU0 for 1 GbE client ODU2: ODU2 for Pattern or 10 GbE client O2GMPODU0: ODU2-PT21/ODU0 for Pattern client O2GMPODU0GMP: ODU2-PT21/ODU0 for 1 GbE client O2GMPODUFLEX: ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client O2O1ODU0: ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O2O1ODU0GMP: ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O2ODU1: ODU2-PT20/ODU1 for Pattern client O2PT21O1ODU0: ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O2PT21O1ODU0GMP: ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O2PT21ODU1: ODU2-PT21/ODU1 for Pattern client ODU1E: ODU1e for Pattern or 10 GbE client ODU2E: ODU2e for Pattern or 10 GbE client ODU1F: ODU1f for Pattern client ODU2F: ODU2f for Pattern client ODU3E1: ODU3e1 for Pattern client ODU3E2: ODU3e2 for Pattern client

:SOURce:DATA:TELecom:ODU:TYPE

Parameter(s)	
	O3: ODU3 for Pattern or 40 GbE client
	O3GMPODUFLEX: ODU3-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client
	O3O1ODU0: ODU3-PT20/ODU1-PT20/ODU0 for Pattern client
	O3O1ODU0GMP: ODU3-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3O2O1ODU0: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O3O2O1ODU0GMP: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3O2ODU1: ODU3-PT20/ODU2-PT20/ODU1 for Pattern client
	O3O2PT21O1ODU0: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O3O2PT21O1ODU0GMP: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O3O2PT21ODU1: ODU3-PT20/ODU2-PT21/ODU1 for Pattern client
	O3ODU0: ODU3-PT21/ODU0 for Pattern client
	O3ODU0GMP: ODU3-PT21/ODU0 for 1 GbE client
	O3ODU1: ODU3-PT20/ODU1 for Pattern client
	O3ODU2: ODU3-PT20/ODU2 for Pattern or 10 GbE client.
	O3PT21O1ODU0: ODU3-PT21/ODU1-PT20/ODU0 for Pattern client
	O3PT21O1ODU0GMP: ODU3-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O3PT21O2O1ODU0: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O3PT21O2O1ODU0GMP: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3PT21O2ODU1: ODU3-PT21/ODU2-PT20/ODU1 for Pattern client
	O3PT21O2PT21O1ODU0: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O3PT21O2PT21O1ODU0GMP: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GeE client
	O3PT21O2PT21ODU1: ODU3-PT21/ODU2-PT21/ODU1 for Pattern client
	O3PT21ODU1: ODU3-PT21/ODU1 for Pattern client
	O3PT21ODU2: ODU3-PT21/ODU2 for Pattern or 10 GbE client

:SOURce:DATA:TELEcom:ODU:TYPE

Parameter(s)	O4: ODU4 for Pattern or 100 GbE client O4GMPO1ODU0: ODU4-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO1ODU0GMP: ODU4-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO2ODU1: ODU4-PT21/ODU2-PT20/ODU1 for Pattern client O4GMPO2GMPODU0: ODU4-PT21/ODU2-PT21/ODU0 for Pattern client O4GMPO2GMPODU0GMP: ODU4-PT21/ODU2-PT21/ODU0 for 1 GbE client O4GMPO2GMPODUFLEX: ODU4-PT21/ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client O4GMPO2O1ODU0: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O4GMPO2O1ODU0GMP: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O4GMPO2PT21O1ODU0: ODU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO2PT21O1ODU0GMP: ODU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO2PT21ODU1: ODU4-PT21/ODU2-PT21/ODU1 for Pattern client O4GMPO3GMPODU0: ODU4-PT21/ODU3-PT21/ODU0 for Pattern client O4GMPO3GMPODU0GMP: ODU4-PT21/ODU3-PT21/ODU0 for 1 GbE client O4GMPO3O2O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O4GMPO3O2O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3O2ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1 for Pattern client O4GMPO3O2PT21O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO3O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3O2PT21ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1 for Pattern client O4GMPO3ODU1: ODU4-PT21/ODU3-PT20/ODU1 for Pattern client O4GMPO3ODU2: ODU4-PT21/ODU3-PT20/ODU2 for Pattern or 10 GbE client O4GMPO3PT21O2O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
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:SOURce:DATA:TELecom:ODU:TYPE	
Parameter(s)	O4GMPO3PT21O2O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3PT21O2ODU1: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1 for Pattern client O4GMPO3PT21O2PT21O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO3PT21O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3PT21O2PT21ODU1: ODU4-PT21/ODU3-PT21/ODU2-Pt21/ODU1 for Pattern client O4GMPO3PT21ODU1: ODU4-PT21/ODU3-PT21/ODU1 for Pattern client O4GMPO3PT21ODU2: ODU4-PT21/ODU3-PT21/ODU2 for Pattern or 10 GbE client O4GMPODUFLEX: ODU4-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client O4GMPODU1E: ODU4-PT21/ODU1e for Pattern or 10 GbE client O4GMPODU0GMP: ODU4-PT21/ODU0 for 1 GbE client O4GMPODU3GMP: ODU4-PT21/ODU3 for 40 GbE client O4ODU0: ODU4-PT21/ODU0 for Pattern client O4ODU1: ODU4-PT21/ODU1 for Pattern client O4ODU2: ODU4-PT21/ODU2 for Pattern or 10 GbE client O4ODU2E: ODU4-PT21/ODU2e for Pattern or 10 GbE client O4ODU3: ODU4-PT21/ODU3 for Pattern client O4ODUK: ODTUG4 PT21 for Pattern client (refer to ODU Channels for settings)
Response Syntax	<LANE>
Example(s)	OUR:DATA:TEL:OTN:CLI PATTERN SOUR:DATA:TEL:ODU:TYPE O3 SOUR:DATA:TEL:ODU:TYPE? Returns: O3
See Also	SOURce:DATA:TELecom:OTN:FRAMing SOURce:DATA:TELecom:OTN:CLient

:SOURce:DATA:TELEcom:ODU:TYPE?

Description	This query returns the OTN Multiplexing for Optical Data Unit (ODU). At *RST condition, this value is set to ODU3. Navigation Path: Setup > Test Configurator > Modify Structure > OTN Multiplexing
Syntax	:SOURce:DATA:TELEcom:ODU:TYPE?
Response Syntax	<ODUType>
Response(s)	ODUType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the OTN Multiplexing including patyload type. ODU1: ODU1 for Pattern client O1ODU0: ODU1-PT20/ODU0 for Pattern client O1ODU0GMP: ODU1-PT20/ODU0 for 1 GbE client ODU2: ODU2 for Pattern or 10 GbE client O2GMPODU0: ODU2-PT21/ODU0 for Pattern client O2GMPODU0GMP: ODU2-PT21/ODU0 for 1 GbE client O2GMPODUFLEX: ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client O2O1ODU0: ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O2O1ODU0GMP: ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O2ODU1: ODU2-PT20/ODU1 for Pattern client O2PT21O1ODU0: ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O2PT21O1ODU0GMP: ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O2PT21ODU1: ODU2-PT21/ODU1 for Pattern client ODU1E: ODU1e for Pattern or 10 GbE client ODU2E: ODU2e for Pattern or 10 GbE client ODU1F: ODU1f for Pattern client ODU2F: ODU2f for Pattern client ODU3E1: ODU3e1 for Pattern client ODU3E2: ODU3e2 for Pattern client

:SOURce:DATA:TELecom:ODU:TYPE?

Response(s)

O3: ODU3 for Pattern or 40 GbE client
 O3GMP0DUFLEX: ODU3-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client
 O3O1ODU0: ODU3-PT20/ODU1-PT20/ODU0 for Pattern client
 O3O1ODU0GMP: ODU3-PT20/ODU1-PT20/ODU0 for 1 GbE client
 O3O2O1ODU0: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
 O3O2O1ODU0GMP: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
 O3O2ODU1: ODU3-PT20/ODU2-PT20/ODU1 for Pattern client
 O3O2PT21O1ODU0: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
 O3O2PT21O1ODU0GMP: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
 O3O2PT21ODU1: ODU3-PT20/ODU2-PT21/ODU1 for Pattern client
 O3ODU0: ODU3-PT21/ODU0 for Pattern client
 O3ODU0GMP: ODU3-PT21/ODU0 for 1 GbE client
 O3ODU1: ODU3-PT20/ODU1 for Pattern client
 O3ODU2: ODU3-PT20/ODU2 for Pattern or 10 GbE client.
 O3PT21O1ODU0: ODU3-PT21/ODU1-PT20/ODU0 for Pattern client
 O3PT21O1ODU0GMP: ODU3-PT21/ODU1-PT20/ODU0 for 1 GbE client
 O3PT21O2O1ODU0: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
 O3PT21O2O1ODU0GMP: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
 O3PT21O2ODU1: ODU3-PT21/ODU2-PT20/ODU1 for Pattern client
 O3PT21O2PT21O1ODU0: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
 O3PT21O2PT21O1ODU0GMP: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GeE client
 O3PT21O2PT21ODU1: ODU3-PT21/ODU2-PT21/ODU1 for Pattern client
 O3PT21ODU1: ODU3-PT21/ODU1 for Pattern client
 O3PT21ODU2: ODU3-PT21/ODU2 for Pattern or 10 GbE client

 O4: ODU4 for Pattern or 100 GbE client
 O4GMP01ODU0: ODU4-PT21/ODU1-PT20/ODU0 for Pattern client
 O4GMP01ODU0GMP: ODU4-PT21/ODU1-PT20/ODU0 for 1 GbE client
 O4GMP02ODU1: ODU4-PT21/ODU2-PT20/ODU1 for Pattern client

:SOURce:DATA:TELecom:ODU:TYPE?

Response(s)	O4GMPO2GMPODU0: ODU4-PT21/ODU2-PT21/ODU0 for Pattern client O4GMPO2GMPODU0GMP: ODU4-PT21/ODU2-PT21/ODU0 for 1 GbE client O4GMPO2GMPODUFLEX: ODU4-PT21/ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client O4GMPO2O1ODU0: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O4GMPO2O1ODU0GMP: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O4GMPO2PT21O1ODU0: ODU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO2PT21O1ODU0GMP: DU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO2PT21ODU1: ODU4-PT21/ODU2-PT21/ODU1 for Pattern client O4GMPO3GMPODU0: ODU4-PT21/ODU3-PT21/ODU0 for Pattern client O4GMPO3GMPODU0GMP: ODU4-PT21/ODU3-PT21/ODU0 for 1 GbE client O4GMPO3O2O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O4GMPO3O2O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3O2ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1 for Pattern client O4GMPO3O2PT21O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO3O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3O2PT21ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1 for Pattern client O4GMPO3ODU1: ODU4-PT21/ODU3-PT20/ODU1 for Pattern client O4GMPO3ODU2: ODU4-PT21/ODU3-PT20/ODU2 for Pattern or 10 GbE client O4GMPO3PT21O2O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client O4GMPO3PT21O2O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
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:SOURce:DATA:TELecom:ODU:TYPE?	
Response(s)	O4GMPO3PT21O2ODU1: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1 for Pattern client O4GMPO3PT21O2PT21O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client O4GMPO3PT21O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client O4GMPO3PT21O2PT21ODU1: ODU4-PT21/ODU3-PT21/ODU2-Pt21/ODU1 for Pattern client O4GMPO3PT21ODU1: ODU4-PT21/ODU3-PT21/ODU1 for Pattern client O4GMPO3PT21ODU2: ODU4-PT21/ODU3-PT21/ODU2 for Pattern or 10 GbE client O4GMPODUFLEX: ODU4-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client O4GMPODU1E: ODU4-PT21/ODU1e for Pattern or 10 GbE client O4GMPODU0GMP: ODU4-PT21/ODU0 for 1 GbE client O4GMPODU3GMP: ODU4-PT21/ODU3 for 40 GbE client O4ODU0: ODU4-PT21/ODU0 for Pattern client O4ODU1: ODU4-PT21/ODU1 for Pattern client O4ODU2: ODU4-PT21/ODU2 for Pattern or 10 GbE client O4ODU2E: ODU4-PT21/ODU2e for Pattern or 10 GbE client O4ODU3: ODU4-PT21/ODU3 for Pattern client O4ODUK: ODTUG4 PT21 for Pattern client (refer to ODU Channels for settings)
Example(s)	SOUR:DATA:TEL:ODU:TYPE O3 SOUR:DATA:TEL:ODU:TYPE? Returns: O3
See Also	SOURce:DATA:TELecom:OTN:FRAMing SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELeom:OPTical:PORT:LTYPe

Description	This command sets the host or media loopback type on optical modules that support it.. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Modify Structure > Host/Media Loopback
Syntax	:SOURce:DATA:TELeom:OPTical:PORT:LTYPe <wsp><Loopback>
Parameter(s)	Loopback: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. NONE: No loopback HOST_SIDE_INPUT: Host side input loopback MEDIA_SIDE_OUTPUT: Media side output loopback
Response Syntax	<ODUType>
Example(s)	SOUR:DATA:TEL:OPT:PORT:LTYP NONE SOUR:DATA:TEL:OPT:PORT:LTYP? Returns: NONE
See Also	SOURce:DATA:TELeom:OPTical:PORT:LTYPe? SOURce:DATA:TELeom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OPTical:PORT:LTYPe?	
Description	This query returns the configuration of the host or media loopback type. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Modify Structure > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:LTYPe?
Response Syntax	<Loopback>
Response(s)	Loopback: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the configuration of the host or media loopback type NONE: No loopback HOST_SIDE_INPUT: Host side input loopback MEDIA_SIDE_OUTPUT: Media side output loopback
Example(s)	SOURce:DATA:TELecom:OPTical:PORT:LTYPe NONE SOURce:DATA:TELecom:OPTical:PORT:LTYPe? Returns: NONE
See Also	SOURce:DATA:TELecom:OPTical:PORT:LTYPe SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELeom:OTN:CLient

Description	This command selects the client type for OTN test applications. At *RST condition, this value is set to PATTERN. Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:SOURce:DATA:TELeom:OTN:CLient <wsp><Client>
Parameter(s)	Client: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the client type for OTN BERT application. 1GBE: 1 GbE 10GBE: 10 GbE 100GBE: 100 GbE 40GBE: 40GbE ETHERNETFLEX: Ethernet (flex/GFP-F) PATTERN: Pattern
Response Syntax	<Loopback>
Example(s)	SOUR:DATA:TEL:OTN:CLI ETHERNETFLEX SOUR:DATA:TEL:OTN:CLI? Returns: ETHERNETFLEX
See Also	SOURce:DATA:TELeom:OTN:FRAMing?

:SOURce:DATA:TELecom:OTN:CLient?	
Description	This query returns the client type for OTN test applications. At *RST condition, this value is set to PATTERN. Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:SOURce:DATA:TELecom:OTN:CLient?
Response Syntax	<Client>
Response(s)	Client: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the client type for OTN BERT application. 1GBE: 1 GbE 10GBE: 10 GbE 100GBE: 100 GbE 40GBE: 40GbE ETHERNETFLEX: Ethernet (flex/GFP-F) PATTERN: Pattern
Example(s)	SOUR:DATA:TEL:OTN:CLI ETHERNETFLEX SOUR:DATA:TEL:OTN:CLI? Returns: ETHERNETFLEX
See Also	SOURce:DATA:TELecom:OTN:FRAMing

:SOURce:DATA:TELEcom:OTN:FRAMing

Description	This command selects the framing for OTN BERT application. At *RST condition, this value is set to Framed. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELEcom:OTN:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame layer type for OTN BERT application. FRAMED 4UPHLANE: 4 Unframed Physical Lanes 20UOLOGLANE: 20 Unframed Physical Lanes
Response Syntax	<Client>
Example(s)	SOUR:DATA:TEL:OTN:FRAM FRAMED SOUR:DATA:TEL:OTN:FRAM? Returns: FRAMED
See Also	SOURce:DATA:TELEcom:TEST:TYPE

:SOURce:DATA:TELecom:OTN:FRAMing?	
Description	This query returns the framing for OTN BERT application. At *RST condition, this value is set to Framed. Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the framing. FRAMED 4UPHLANE: 4 Unframed Physical Lanes 20UOLOGLANE: 20 Unframed Physical Lane
Example(s)	SOUR:DATA:TEL:OTN:FRAM FRAMED SOUR:DATA:TEL:OTN:FRAM? Returns: FRAMED
See Also	SOURce:DATA:TELecom:TEST:TYPE?

:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPE

Description	The command sets the embedded SONET/SDH signal for OTN-SONET/SDH BERT. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Embedded SONET/SDH
Syntax	:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPE <wsp><Interface>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the embedded SONET/SDH signal. OC12: OC-12 OC192: OC-192 OC3: OC-3 OC48: OC-48 OC768: OC-768 STM1: STM-1 STM16: STM-16 STM256: STM-256 STM4: STM-4 STM64: STM-64
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:OTN:MULT:ITYP OC768 SOUR:DATA:TEL:OTN:MULT:ITYP? Returns: OC768
See Also	SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE

:SOURce:DATA:TELeom:OTN:MULTiplex:ITYPE?	
Description	This query returns the embedded SONET/SDH signal for OTN-SONET/SDH BERT. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Embedded SONET/SDH
Syntax	:SOURce:DATA:TELeom:OTN:MULTiplex:ITYPE?
Response Syntax	<Interface>
Response(s)	Interface: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the embedded SONET/SDH signal: OC12: OC-12 OC192: OC-192 OC3: OC-3 OC48: OC-48 OC768: OC-768 STM1: STM-1 STM16: STM-16 STM256: STM-256 STM4: STM-4 STM64: STM-64
Example(s)	SOUR:DATA:TEL:OTN:MULT:ITYP OC768 SOUR:DATA:TEL:OTN:MULT:ITYP? Returns: OC768
See Also	SOURce:DATA:TELeom:SDHSonet:MULTiplex:TYPE?

:SOURce:DATA:TELEcom:PACKetsync:PTP:EMODE

Description	This command sets the 1588 PTP Emulation Mode. At *RST condition, this value is set to Client. Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:EMODE <wsp><EmulationMode>
Parameter(s)	EmulationMode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Emulation Mode. CLIENT: Client GM: Grand Master
Response Syntax	<Interface>
Example(s)	SOUR:DATA:TEL:PACK:PTP:EMOD CLIENT SOUR:DATA:TEL:PACK:PTP:EMOD? Return: CLIENT

:SOURce:DATA:TELecom:PACKetsync:PTP:EMODE?	
Description	This query returns the 1588 PTP Emulation Mode. At *RST condition, this value is set to Client. Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode,
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:EMODE?
Response Syntax	<EmulationMode>
Response(s)	EmulationMode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Sets the Emulation Mode. CLIENT: Client GM: Grand Master
Example(s)	SOUR:DATA:TEL:PACK:PTP:EMOD CLIENT SOUR:DATA:TEL:PACK:PTP:EMOD? Return: CLIENT

:SOURce:DATA:TELeom:PACKetsync:PTP:TSource:ENABLE

Description	This command enables/disables the Time Source for 1588 PTP GM Emulation Mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Modify Structure > Time Source
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:TSource:ENABLE <wsp><TimeSource>
Parameter(s)	TimeSource: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: OFF: Disables ON: Enables
Response Syntax	<EmulationMode>
Example(s)	SOUR:DATA:TEL:PACK:PTP:TSource:ENAB ON SOUR:DATA:TEL:PACK:PTP:TSource:ENAB? Returns: 1

:SOURce:DATA:TELeom:PACKetsync:PTP:TSource:ENABle?	
Description	This query returns the Time Source for 1588 PTP GM Emulation Mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Modify Structure > Time Source
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:TSource:ENABle?
Response Syntax	<TimeSource>
Response(s)	TimeSource: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:TSource:ENAB ON SOUR:DATA:TEL:PACK:PTP:TSource:ENAB? Returns: 1

:SOURce:DATA:TELecom:PORT

Description	This command selects the port used for subsequent commands/queries for test applications using more than one test port. At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:PORT <wsp> <PORT>
Parameter(s)	PORT: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. For test using two ports: FIRST: The first or Primary port (for compatibility purposes, P1 is also accepted). SECOND: The second or Secondary port (for compatibility purposes, P2 is also accepted). For FlexE: P1: Port #1 P2: Port #2 P3: Port #3 P4: Port #4 A1: A1 A2: A2 B1: B1 B2: B2
Response Syntax	<TimeSource>
Example(s)	SOUR:DATA:TEL:PORT FIRST SOUR:DATA:TEL:PORT? Returns: FIRST

:SOURce:DATA:TELecom:PORT?	
Description	This query returns the port used for subsequent commands/queries for test applications using more than one test port. At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:PORT?
Response Syntax	<Port No>
Response(s)	Port No: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selected port. For test using two ports: FIRST or P1: The first or Primary port SECOND or P2: The second or Secondary port For FlexE: P1: Port #1 P2: Port #2 P3: Port #3 P4: Port #4 A1: A1 A2: A2 B1: B1 B2; B2
Example(s)	SOUR:DATA:TEL:PORT FIRST SOUR:DATA:TEL:PORT? Returns: FIRST

:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

Description	This command select the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications. Navigation Path: Setup > Text Configurator > Modify Structure > SONET/SDH Multiplexing
Syntax	:SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select SONET/SDH Multiplexing. AU3: AU-3 AU3TU11: AU-3/TU-11 AU3TU12: AU-3/TU-12 AU4: AU-4 AU4TU3: AU-4/TU-3 AU4TU11: AU-4/TU-11 AU4TU12: AU-4/TU-12 AU44C: AU-4-4c AU416C: AU-4-16c AU464C: AU-4-64c AU4256C: AU-4-256c STS1: STS-1 STS1VT2: STS-1/VT-2 STS1VT15: STS-1/VT-1.5 STS3C: STS-3c STS12C: STS-12c STS48C: STS-48c STS192C: STS-192c STS768C: STS-768c
Response Syntax	<Port No>
Example(s)	SOUR:DATA:TEL:SDHS:MULT:TYPE AU3 SOUR:DATA:TEL:SDHS:MULT:TYPE? Returns: AU3

:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?	
Description	This query returns the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications. Navigation Path: Setup > Text Configurator > Modify Structure > SONET/SDH Multiplexing
Syntax	:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Gets SONET/SDH Multiplexing. AU3: AU-3 AU3TU11: AU-3/TU-11 AU3TU12: AU-3/TU-12 AU4: AU-4 AU4TU3: AU-4/TU-3 AU4TU11: AU-4/TU-11 AU4TU12: AU-4/TU-12 AU44C: AU-4-4c AU416C: AU-4-16c AU464C: AU-4-64c AU4256C: AU-4-256c STS1: STS-1 STS1VT2: STS-1/VT-2 STS1VT15: STS-1/VT-1.5 STS3C: STS-3c STS12C: STS-12c STS48C: STS-48c STS192C: STS-192c STS768C: STS-768c
Example(s)	SOUR:DATA:TEL:SDHS:MULT:TYPE AU3 SOUR:DATA:TEL:SDHS:MULT:TYPE? Returns: AU3

:SOURce:DATA:TELecom:SOAM:TYPE

Description	This command sets the OAM type. At *RST condition, this value is set to Ethernet OAM. Navigation Path: Setup > Test Configurator > Modify Structure > OAM Type
Syntax	:SOURce:DATA:TELecom:SOAM:TYPE[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OAM type EOAM: the Ethernet OAM MOAM: the MPLS-TP OAM
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:TYPE MOAM SOUR:DATA:TEL:SOAM:TYPE? Returns: MOAM
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:TYPE?	
Description	This query returns the OAM type. At *RST condition, this value is set to Ethernet OAM. Navigation Path: Setup > Test Configurator > Modify Structure > OAM Type
Syntax	:SOURce:DATA:TELecom:SOAM:TYPE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the OAM type. EOAM, Ethernet OAM is selected. MOAM, MPLS-TP OAM is selected. LOAM, Link OAM is selected.
Example(s)	SOUR:DATA:TEL:SOAM:TYPE EOAM SOUR:DATA:TEL:SOAM:TYPE? Returns: EOAM
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:TOPology

Description	This command selects the topology type. At *RST condition, this value is set to COUPLED. Navigation Path: Setup > Test Configurator > Modify structure > Topology
Syntax	:SOURce:DATA:TELecom:TOPology <wsp><TopologyType>
Parameter(s)	TopologyType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the topology type. COUPLED: Coupled (TX=RX) DECOUPLE: Decoupled DUALRX: Dual RX DUALPORT: Dual Port SINGLEPORT: Single Port THROUGH: Through THROUGHINTRUSIVE: Through Intrusive
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:TOP COUPLED SOUR:DATA:TEL:TOP? Returns: COUPLED
See Also	SOURce:DATA:TELecom:TAPplication:TEST:TYPE?

:SOURce:DATA:TELEcom:TOPology?	
Description	The query returns the topology type. At *RST condition, this value is set to COUPLED. Navigation Path: Setup > Test Configurator > Modify structure > Topology
Syntax	:SOURce:DATA:TELEcom:TOPology?
Response Syntax	<TopologyType>
Response(s)	TopologyType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the topology type. COUPLED: Coupled (TX=RX) DECOUPLE: Decoupled DUALRX: Dual RX DUALPORT: Dual Port SINGLEPORT: Single Port THROUGH: Through THROUGHINTRUSIVE: Through Intrusive
Example(s)	SOUR:DATA:TEL:TOP COUPLED SOUR:DATA:TEL:TOP? Returns: COUPLED
See Also	SOURce:DATA:TELEcom:TAPplication:TEST:TYPE

Clock

:INPut:TELecom:BACKplane:CLOCK

Description	This command sets the clock mode for synchronization at the input port. At *RST condition, this value is set to INTERNAL. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Clock Synchronization > Clock Mode
Syntax	:INPut:TELecom:BACKplane:CLOCK <wsp> <Clock>
Parameter(s)	Clock: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the clock mode for synchronization at the input port. INTernal: Internal clock of the unit (STRATUM 3) EXTernal: Clock received from an external clock signal BPLane: Backplane clock RECovered: Recovered clock EXT1PPS: External 1PPS INTGNSS: Internal GNSS
Response Syntax	<Status>
Example(s)	INP:TEL:BACK:CLOC REC INP:TEL:BACK:CLOC? Returns: RECOVERED
See Also	INPut:TELecom:BACKplane:CLOCK?

:INPut:TELEcom:BACKplane:CLOCK?	
Description	This query returns the clock mode for synchronization at the input port. At *RST condition, this value is set to INTERNAL. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Clock Synchronization > Clock Mode
Syntax	:INPut:TELEcom:BACKplane:CLOCK?
Response Syntax	<Clock>
Response(s)	Clock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the clock mode for synchronization at the input port. INTernal: Internal clock of the unit (STRATUM 3) EXTernal: Clock received from an external clock signal BPLane: Backplane clock RECovered: Recovered clock EXT1PPS: External 1PPS INTGNSS: Internal GNSS
Example(s)	INP:TEL:BACK:CLOC REC INP:TEL:BACK:CLOC? Returns: RECOVERED
See Also	INPut:TELEcom:BACKplane:CLOCK

:INPut:TELecom:BACKplane:STATus?

Description	This query returns the current state of the backplane. This command is not associated with any *RST value. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BACKplane:STATus?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current Backplane status. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:BACK:STAT? Returns: the status of the backplane.
See Also	INPut:TELecom:BCLock:ENABLE?

:INPut:TELecom:BCLock:ENABle	
Description	This command sets the backplane clock enabled status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BCLock:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Current>
Example(s)	INP:TEL:BCL:ENAB ON INP:TEL:BCL:ENAB? Returns: 1
See Also	INPut:TELecom:BACKplane:STAtus?

:INPut:TELecom:BCLock:ENABle?

Description	This query returns the backplane clock value of the backplane. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BCLock:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	INP:TEL:BCL:ENAB ON INP:TEL:BCL:ENAB? Returns: 1
See Also	INPut:TELecom:BACKplane:STAtus?

:INPut:TELecom:CLOCK:ALARm:STATus?	
Description	This query returns the status Clock out. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Ext Clock Out > Ext Clock Out
Syntax	:INPut:TELecom:CLOCK:ALARm:STATus? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the status clock Out. LOC
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the status of Clock out. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:CLOC:ALAR:STAT? LOC
See Also	OUTPut:TELecom:CLOCK:ALARm:STATus?

:INPut:TELEcom:CODE

Description	This command sets the interface line coding for the input port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Line Coding
Syntax	:INPut:TELEcom:CODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface line coding. B8ZS HDB3 AMI
Response Syntax	<Status>
Example(s)	INP:TEL:LEV E1 INP:TEL:CODE HDB3 INP:TEL:CODE? Returns: HDB3
See Also	INPut:TELEcom:CODE?

:INPut:TELecom:CODE?	
Description	This query returns the interface line coding for the input port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Line Coding
Syntax	:INPut:TELecom:CODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface line coding. B8ZS, indicates the B8ZS as the interface line coding. HDB3, indicates the HDB3 as the interface line coding. AMI, indicates the AMI as the interface line coding.
Example(s)	INP:TEL:LEV E1 INP:TEL:CODE HDB3 INP:TEL:CODE? Returns: HDB3
See Also	INPut:TELecom:CODE

:INPut:TELecom:COUtput:FREQuency?

Description	This query returns the frequency of clock output. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ref Out > Frequency
Syntax	:INPut:TELecom:COUtput:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the offset value of the frequency.
Example(s)	INP:TEL:COUT:FREQ?
See Also	INPut:TELecom:COUtput:STAtus?

:INPut:TELecom:COUtput:SOURce	
Description	This command sets the current state of the clock output source. At *RST condition, if connector is CFP4 then this value is set to TX_MCLK and if connector is QSFP then this value is set to INT_DIV160. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Internal Clock > Ref Out > Source
Syntax	:INPut:TELecom:COUtput:SOURce <wsp> <Source>
Parameter(s)	Source: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the clock output source. INT_DIV8 INT_DIV40 INT_DIV160 TX_MCLK
Response Syntax	<Frequency>
Example(s)	INP:TEL:COUT:SOUR INTERNAL
See Also	INPut:TELecom:COUtput:SOURce?

:INPut:TELecom:COUtput:SOURce?

Description	This query returns the current state of the clock output source. This query is not associated with any *RST value. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Internal Clock > Ref Out > Source
Syntax	:INPut:TELecom:COUtput:SOURce?
Response Syntax	<Source>
Response(s)	Source: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the clock output source. INT_DIV8, indicates the clock output source is selected to internal 1/8 clock. INT_DIV40, indicates the clock output source is selected to internal 1/40 clock. INT_DIV160, indicates the clock output source is selected to internal 1/160 clock. TX_MCLK, indicates the clock output source is selected to TX MCLK.
Example(s)	INP:TEL:COU:SOUR?
See Also	INPut:TELecom:COUtput:SOURce

:INPut:TELEcom:COUtput:STATus?	
Description	This query returns the current state of clock output. This query is not associated with any *RST value. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ref Out > Clock Out
Syntax	:INPut:TELEcom:COUtput:STATus?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current state of the clock out field. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:COU:STAT?
See Also	INPut:TELEcom:COUtput:FREQuency?

:INPut:TELecom:FRAMing

Description	This command selects the interface framing. At *RST condition, this value is set to ESF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Framing
Syntax	:INPut:TELecom:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface framing. SF: SF (Superframe) ESF: ESF (Extended Superframe) PCM30: PCM30 (Pulse Code Modulation) PCM30C4: PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) PCM31: PCM31 (Pulse Code Modulation) PCM31C4: PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) SLC96: SLC96
Response Syntax	<Current>
Example(s)	INP:TEL:LEV DS1 INP:TEL:FRAM ESF INP:TEL:FRAM? Returns: ESF
See Also	INPut:TELecom:FRAMing?

:INPut:TELEcom:FRAMing?	
Description	This query returns the interface framing. At *RST condition, this value is set to ESF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Framing
Syntax	:INPut:TELEcom:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface framing. SF, indicates SF (Superframe) as the interface framing. ESF, indicates ESF (Extended Superframe) as the interface framing. PCM30, indicates PCM30 (Pulse Code Modulation) as the interface framing. PCM30C4, indicates PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing. PCM31, indicates PCM31 (Pulse Code Modulation) as the interface framing. PCM31C4, indicates PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing. SLC96, indicates SLC96 as the interface framing.
Example(s)	INP:TEL:LEV DS1 INP:TEL:FRAM ESF INP:TEL:FRAM? Returns: ESF
See Also	INPut:TELEcom:FRAMing

:INPut:TELecom:LBO

Description	This command sets the value for the Line Build Out interface. At *RST condition, this value is set to DSX133. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > LBO
Syntax	:INPut:TELecom:LBO <wsp><Lbo>
Parameter(s)	Lbo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value for the Line Build Out interface. DSX655 DSX533 DSX399 DSX266 DSX133
Response Syntax	<Framing>
Example(s)	INP:TEL:LBO DSX266 INP:TEL:LBO? Returns: DSX266
See Also	INPut:TELecom:LEVel

:INPut:TELecom:LBO?	
Description	This query returns the value for the Line Build Out interface. At *RST condition, this value is set to DSX133. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > LBO
Syntax	:INPut:TELecom:LBO?
Response Syntax	<Clock>
Response(s)	Clock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value for the Line Build Out interface. DSX655, sets the value as DSX655. DSX533, sets the value as DSX533. DSX399, sets the value as DSX399. DSX266, sets the value as DSX266. DSX133, sets the value as DSX133.
Example(s)	INP:TEL:LBO? Returns: DSX133
See Also	INPut:TELecom:LEVel?

:INPut:TELEcom:LEVel

Description	This command sets the internal timing interface input level for the input port. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Interface
Syntax	:INPut:TELEcom:LEVel <wsp><Level>
Parameter(s)	Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the internal timing interface input level. 2MHZ: 2 MHz DS1: DS1 E1: E1 NONE: None
Response Syntax	<Clock>
Example(s)	INP:TEL:LEV DS1 INP:TEL:LEV? Returns: DS1
See Also	INPut:TELEcom:LEVel?

:INPut:TELecom:LEVel?	
Description	This query returns the internal timing interface input level for the input port. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Interface
Syntax	:INPut:TELecom:LEVel?
Response Syntax	<Level>
Response(s)	Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the internal timing interface input level. 2MHZ: 2 MHz DS1: DS1 E1: E1 NONE: None
Example(s)	INP:TEL:LEV DS1 INP:TEL:LEV? Returns: DS1
See Also	INPut:TELecom:LBO?

:INPut:TELecom:TRIButary:CLOCK

Description	This command sets the Tributary Synchronization Clock Mode. At *RST condition, this value is set to INTERNAL. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Tributary Synchronization > Clock Mode
Syntax	:INPut:TELecom:TRIButary:CLOCK <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the tributary synchronization clock mode. INTernal: Internal clock of the unit (STRATUM 3) EXTernal: Clock received from an external clock signal BPLane: Backplane clock RECovered: Recovered clock
Response Syntax	<Level>
Example(s)	INP:TEL:TRIB:CLOC REC INP:TEL:TRIB:CLOC? Returns: RECOVERED
See Also	INPut:TELecom:TRIButary:CLOCK?

:INPut:TELeom:TRIButary:CLOck?	
Description	This query returns the Tributary Synchronization Clock Mode. At *RST condition, this value is set to INTERNAL. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Tributary Synchronization > Clock Mode
Syntax	:INPut:TELeom:TRIButary:CLOck?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns tributary synchronization clock mode. INternal: Internal clock of the unit (STRATUM 3) EXternal: Clock received from an external clock signal BPLane: Backplane clock REcovered: Recovered clock
Example(s)	INP:TEL:TRIB:CLOC REC INP:TEL:TRIB:CLOC? Returns: RECOVERED
See Also	INPut:TELeom:TRIButary:CLOck?

:OUTPut:TELeom:CLOCk:ALARm:STATus?

Description	This query returns the status Clock in. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Ext Clock In > Ext Clock In
Syntax	:OUTPut:TELeom:CLOCk:ALARm:STATus? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the status clock in. LOS LOF AIS FREQuency
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the status of Clock out. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	OUTP:TEL:CLOC:ALAR:STAT? LOS
See Also	OUTPut:TELeom:BACKplane:STATus?

:OUTPut:TELecom:CLOCK:FREQuency:OFFSet?	
Description	This query returns the positive or negative frequency offset between the standard rate specification and the rate from the received signal. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Frequency Offset
Syntax	:OUTPut:TELecom:CLOCK:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frequency offset.
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:CLOC:FREQ:OFFS?
See Also	OUTPut:TELecom:CLOCK:FREQuency?

:OUTPut:TELEcom:CLOCK:FREQuency?

Description	This query returns the received frequency signal rate (Hz). At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Frequency
Syntax	:OUTPut:TELEcom:CLOCK:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received clock rate.
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:CLOC:FREQ?
See Also	OUTPut:TELEcom:CLOCK:FREQuency:OFFSet?

:OUTPut:TELEcom:CODE	
Description	This command sets the external timing line code for the output port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Line Coding
Syntax	:OUTPut:TELEcom:CODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the external timing line code. B8ZS HDB3 AMI
Response Syntax	<Frequency>
Example(s)	OUTP:TEL:LEV E1 OUTP:TEL:CODE HDB3 OUTP:TEL:CODE? Returns: HDB3
See Also	OUTPut:TELEcom:CODE?

:OUTPut:TELecom:CODE?

Description	This query returns the external timing line code for the output port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Line Coding
Syntax	:OUTPut:TELecom:CODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the external timing line code. B8ZS, B8ZS external timing line code is selected. HDB3, HDB3 external timing line code is selected. AMI, AMI external timing line code is selected.
Example(s)	OUTP:TEL:LEV E1 OUTP:TEL:CODE HDB3 OUTP:TEL:CODE? Returns: HDB3
See Also	OUTPut:TELecom:CODE

:OUTPut:TELEcom:FRAMing	
Description	This command selects the interface framing. At *RST condition, this value is set to ESF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Framing
Syntax	:OUTPut:TELEcom:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface framing. SF: SF (Superframe) ESF: ESF (Extended Superframe) PCM30: PCM30 (Pulse Code Modulation) PCM30C4: PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) PCM31: PCM31 (Pulse Code Modulation) PCM31C4: PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) SLC96: SLC96
Response Syntax	<Code>
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:FRAM ESF OUTP:TEL:FRAM? Returns: ESF
See Also	OUTPut:TELEcom:FRAMing?

:OUTPut:TELecom:FRAMing?

Description	This query returns the interface framing. At *RST condition, this value is set to ESF. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Framing
Syntax	:OUTPut:TELecom:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface framing. SF, indicates SF (Superframe) as the interface framing. ESF, indicates ESF (Extended Superframe) as the interface framing. PCM30, indicates PCM30 (Pulse Code Modulation) as the interface framing. PCM30C4, indicates PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing. PCM31, indicates PCM31 (Pulse Code Modulation) as the interface framing. PCM31C4, indicates PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing. SLC96, indicates SLC96 as the interface framing.
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:FRAM ESF OUTP:TEL:FRAM? Returns: ESF
See Also	OUTPut:TELecom:FRAMing

:OUTPut:TELEcom:LEVel	
Description	This command sets the external timing interface output level for the output port. At *RST condition, this value is set to NONE if 25G interface is in use, DS1 otherwise. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Interface
Syntax	:OUTPut:TELEcom:LEVel <wsp><Level>
Parameter(s)	Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the external timing interface output level. 10MHZ: 10 MHz 2MHZ: 2 MHz DS1: DS1 E1: E1 NONE: None
Response Syntax	<Framing>
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:LEV? Returns: DS1
See Also	OUTPut:TELEcom:LEVel?

:OUTPut:TELecom:LEVel?

Description	This query returns the external timing interface output level for the output port. At *RST condition, this value is set to DS1. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Interface
Syntax	:OUTPut:TELecom:LEVel?
Response Syntax	<Level>
Response(s)	Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the external timing interface output level. 10MHZ: 10 MHz 2MHZ: 2 MHz DS1: DS1 E1: E1 NONE: None
Example(s)	OUTP:TEL:LEV DS1 OUTP:TEL:LEV? Returns: DS1
See Also	OUTPut:TELecom:LEVel

:OUTPut:TELEcom:TERMination	
Description	This command sets the termination mode for the external timing. At *RST condition, this value is set to TERM. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock/Backplane > Ext Clock In > Termination Mode
Syntax	:OUTPut:TELEcom:TERMination <wsp><Termination>
Parameter(s)	Termination: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the termination modes. BRIDge: Bridge MON: DSX-Monitor TERM: Terminal
Response Syntax	<Level>
Example(s)	OUTP:TERM? OUTP:TEL:TERM TERM OUTP:TEL:TERM? Returns: TERM
See Also	OUTPut:TELEcom:LEVel?

:OUTPut:TELecom:TERMination?

Description	This query returns the value of the termination modes for the external timing. At *RST condition, this value is set to TERM. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Termination Mode
Syntax	:OUTPut:TELecom:TERMination?
Response Syntax	<Termination>
Response(s)	Termination: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the termination mode. BRID: Bridge MON: DSX-Monitor TERM: Terminal
Example(s)	OUTP:TEL:TERM OUTP:TEL:TERM TERM OUTP:TEL:TERM? Returns: TERM
See Also	OUTPut:TELecom:LEVel

CFP4/QSFP/SFP/SFP+

:FETCh:DATA:TELEcom:OPTical:CONNector:CURRent:ACTual?	
Description	This query returns the Actual Current Consumption of connected transceiver. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Current
Syntax	:FETCh:DATA:TELEcom:OPTical:CONNector:CURRent:ACTual?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Current of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:CURR:ACT?
See Also	FETCh:DATA:TELEcom:OPTical:CONNector:CURRent:MAXimum?

:FETCh:DATA:TELecom:OPTical:CONNector:CURRent:MAXimum?	
Description	This query returns the Maximum Current Consumption of connected transceiver. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Current
Syntax	:FETCh:DATA:TELecom:OPTical:CONNector:CURRent:MAXimum?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Current of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:CURR:MAX?
See Also	FETCh:DATA:TELecom:OPTical:CONNector:CURRent:ACTual?

:FETCh:DATA:TELecom:OPTical:CONNector:POWer:ACTual?	
Description	This query returns the Actual Power Consumption of connected transceiver. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Power
Syntax	:FETCh:DATA:TELecom:OPTical:CONNector:POWer:ACTual?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Power of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:POW:ACT?
See Also	FETCh:DATA:TELecom:OPTical:CONNector:POWer:MAXimum?

**:FETCh:DATA:TELecom:OPTical:CONNector:POWer:MAXimu
m?**

Description	This query returns the Maximum Power Consumption of connected transceiver. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Power
Syntax	:FETCh:DATA:TELecom:OPTical:CONNector:POWer:MAXimum?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Power of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:POW:MAX?
See Also	FETCh:DATA:TELecom:OPTical:CONNector:POWer:ACTual?

:FETCh:DATA:TELecom:OPTical:CONNector:TEMPerature:ACTual?	
Description	This query returns the Actual Temperature of connected transceiver. At *RST condition, this value is Device Dependent Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Temperature
Syntax	:FETCh:DATA:TELecom:OPTical:CONNector:TEMPerature:ACTual?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:TEMP:ACT?
See Also	FETCh:DATA:TELecom:OPTical:CONNector:TEMPerature:MAXimum?

:FETCh:DATA:TELeom:OPTical:CONNector:TEMPerature:MAXimum?

Description	This query returns the Maximum Temperature of connected transceiver. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP/QSFP/CFP > Temperature
Syntax	:FETCh:DATA:TELeom:OPTical:CONNector:TEMPerature:MAXimum?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:CONN:TEMP:MAX?
See Also	FETCh:DATA:TELeom:OPTical:CONNector:TEMPerature:ACTual?

:FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:ACTual?	
Description	This query returns the Actual Temperature of connected transceiver. At *RST condition, this value is Device Dependent Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Temperature
Syntax	:FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:ACTual?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:SFP:TEMP:ACT?
See Also	FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:MAXimum?

:FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:MAXimum?

Description	This query returns the Maximum Temperature of connected transceiver. At *RST condition, this value is Device Dependent Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Temperature
Syntax	:FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:MAXimum?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:OPT:SFP:TEMP:MAX?
See Also	FETCh:DATA:TELecom:OPTical:SFP:TEMPerature:ACTual?

:SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESense?	
Description	This query returns the CLEI presence of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESense?
Response Syntax	<CLEI>
Response(s)	CLEI: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the CLEI Presence of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CLEI:PRES?
See Also	SENSe:DATA:TELecom:OPTical:CFP:MODUle:ID?

:SENSe:DATA:TELeom:OPTical:CFP:CONNector:TYPE?

Description	This query returns the connector type of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Connector Type
Syntax	:SENSe:DATA:TELeom:OPTical:CFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	Connector_Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CONN:TYPE?
See Also	SENSe:DATA:TELeom:OPTical:CFP:SPEed?

:SENSe:DATA:TELecom:OPTical:CFP:FIRMware:VERsion?	
Description	This query returns the firmware version of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Firmware Version
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:FIRMware:VERsion?
Response Syntax	<Firmware_Version>
Response(s)	Firmware_Version: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the firmware version of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:FIRM:VERS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CONNection:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?

Description	This query returns the lane ratio of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Lane Ratio Type
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?
Response Syntax	<Lane_Ratio>
Response(s)	Lane_Ratio: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the lane ratio of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:LRAT:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:MODE?	
Description	This query returns the mode value of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Mode Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the fiber mode of CFP.
Example(s)	SENS:DATA:TEL:OPT:CFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:MODUle:ID?

:SENSe:DATA:TELecom:OPTical:CFP:MODUle:ID?

Description	This query returns the Module ID of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:MODUle:ID?
Response Syntax	<Module_ID>
Response(s)	Module_ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the module id of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAME?

:SENSe:DATA:TELEcom:OPTical:CFP:PART:NUMBer?	
Description	This query returns the part number of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Part Number
Syntax	:SENSe:DATA:TELEcom:OPTical:CFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	Part_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the part number of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:PART:NUMB?
See Also	SENSe:DATA:TELEcom:OPTical:CFP:SERIal:NUMBer?

:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?

Description	This query returns the power class of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?
Response Syntax	<Power_Class>
Response(s)	Power_Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the power class of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:REVision?	
Description	This query returns the revision of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:REVision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the revision of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CONNection:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:SErIal:NUMBer?

Description	This query returns the serial number of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:SErIal:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	Serial_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the serial number of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:CFP:REVisIon?

:SENSe:DATA:TELeom:OPTical:CFP:SPEEd?	
Description	This query returns the speed of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Speed
Syntax	:SENSe:DATA:TELeom:OPTical:CFP:SPEEd?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the speed of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SPE?
See Also	SENSe:DATA:TELeom:OPTical:CFP:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:TYPE?

Description	This query returns the type of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:POWEr:CLASs?

:SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAME?	
Description	This query returns the vendor name of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAME?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the vendor name of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:CFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?

Description	This query returns the WDM type of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > WDM Type
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?
Response Syntax	<WDM_Type>
Response(s)	WDM_Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the WDM Type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:WDM:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESeence?

:SENSe:DATA:TELecom:OPTical:OSFP:CLEi:CODE?	
Description	This query returns the CLEI presence of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:CLEi:CODE?
Response Syntax	<CLEI>
Response(s)	CLEI: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the CLEI Code of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CLEI:CODE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?

:SENSe:DATA:TELeom:OPTical:OSFP:CONNeCtor:TYPe?

Description	This query returns the connector type of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Connector Type
Syntax	:SENSe:DATA:TELeom:OPTical:OSFP:CONNeCtor:TYPe?
Response Syntax	<Connector_Type>
Response(s)	Connector_Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CONN:TYPE?
See Also	SENSe:DATA:TELeom:OPTical:OSFP:SPEEd?

:SENSe:DATA:TELEcom:OPTical:OSFP:MODE?	
Description	This query returns the mode value of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Mode Link Length
Syntax	:SENSe:DATA:TELEcom:OPTical:OSFP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the fiber mode of OSFP.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MODE?
See Also	SENSe:DATA:TELEcom:OPTical:OSFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?

Description	This query returns the module id of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator >Interface/Signal > OSFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?
Response Syntax	<Module_id>
Response(s)	Module_id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the module id of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAME?

:SENSe:DATA:TELEcom:OPTical:OSFP:PART:NUMBer?	
Description	This query returns the part number of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Part Number
Syntax	:SENSe:DATA:TELEcom:OPTical:OSFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	Part_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the part number of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:PART:NUMB?
See Also	SENSe:DATA:TELEcom:OPTical:OSFP:SERIal:NUMBer?

:SENSe:DATA:TELecom:OPTical:OSFP:POWeR:CLASs?

Description	This query returns the power class of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:POWeR:CLASs?
Response Syntax	<Power_Class>
Response(s)	Power_Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the power class of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:POWeR:CLASs?

:SENSe:DATA:TELEcom:OPTical:OSFP:REVision:COMPLiance?	
Description	This query returns the firmware version of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Revision Compliance
Syntax	:SENSe:DATA:TELEcom:OPTical:OSFP:REVision:COMPLiance?
Response Syntax	<Revision_Compliance>
Response(s)	Revision_Compliance: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the firmware version of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV:COMP?
See Also	SENSe:DATA:TELEcom:OPTical:OSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:REVision?

Description	This query returns the revision of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:REVision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the revision of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:CONNection:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:SERIal:NUMBer?	
Description	This query returns the serial number of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:SERIal:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	Serial_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the serial number of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:SERIal:NUMBer?

:SENSe:DATA:TELecom:OPTical:OSFP:SPEEd?

Description	This query returns the speed of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:SPEEd?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the speed of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:TYPe?	
Description	This query returns the type of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:TYPe?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the type of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:POWEr:CLASs?

:SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAME?

Description	This query returns the vendor name of the OSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAME?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the vendor name of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:QSFP:CLEI:CODE?	
Description	This query returns the CLEI presence of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:CLEI:CODE?
Response Syntax	<CLEI>
Response(s)	CLEI: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the CLEI Code of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CLEI:CODE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:MODUle:ID?

:SENSe:DATA:TELeom:OPTical:QSFP:CONNector:TYPE?

Description	This query returns the connector type of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Connector Type
Syntax	:SENSe:DATA:TELeom:OPTical:QSFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	Connector_Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CONN:TYPE?
See Also	SENSe:DATA:TELeom:OPTical:QSFP:SPEed?

:SENSe:DATA:TELecom:OPTical:QSFP:MODE?	
Description	This query returns the mode value of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Mode Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the fiber mode of QSFP.
Example(s)	SENS:DATA:TEL:OPT:CFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:MODUle:ID?

:SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?

Description	This query returns the module id of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator >Interface/Signal > QSFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?
Response Syntax	<Module_id>
Response(s)	Module_id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the module id of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAME?

:SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?	
Description	This query returns the part number of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	Part_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the part number of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:SERIal:NUMBer?

:SENSe:DATA:TELeom:OPTical:QSFP:POWeR:CLASs?

Description	This query returns the power class of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Power Class
Syntax	:SENSe:DATA:TELeom:OPTical:QSFP:POWeR:CLASs?
Response Syntax	<Power_Class>
Response(s)	Power_Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the power class of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:POW:CLAS?
See Also	SENSe:DATA:TELeom:OPTical:QSFP:POWeR:CLASs?

:SENSe:DATA:TELecom:OPTical:QSFP:REVision:COMPLiance?	
Description	This query returns the firmware version of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Revision Compliance
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:REVision:COMPLiance?
Response Syntax	<Revision_Compliance>
Response(s)	Revision_Compliance: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the firmware version of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV:COMP?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:REVision?

Description	This query returns the revision of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:REVision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the revision of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:SERIal:NUMBer?	
Description	This query returns the serial number of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:SERIal:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	Serial_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the serial number of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:SERIal:NUMBer?

:SENSe:DATA:TELecom:OPTical:QSFP:SPEEd?

Description	This query returns the speed of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:SPEEd?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the speed of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:TYPE?	
Description	This query returns the type of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the type of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:POWEr:CLASs?

:SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAME?

Description	This query returns the vendor name of the QSFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAME?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the vendor name of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:CONNector:TYPE?	
Description	This query returns the connector type of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	Connector_Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:CONN:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:SFP:MODE?

Description	This query returns the mode value of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the fiber mode of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:MODE?

:SENSe:DATA:TELecom:OPTical:SFP:MODUle:ID?	
Description	This query returns the module id of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:MODUle:ID?
Response Syntax	<Module_id>
Response(s)	Module_id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the module id of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:XFP:MODUle:ID?

:SENSe:DATA:TELecom:OPTical:SFP:PART:NUMBer?

Description	This query returns the part number of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	Part_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the part number of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:XFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:POWeR:CLASs?	
Description	This query returns the power class of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:POWeR:CLASs?
Response Syntax	<Power Class>
Response(s)	Power Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Power Class of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:POWeR:CLASs?

:SENSe:DATA:TELecom:OPTical:SFP:REVision?

Description	This query returns the revision of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:REVision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the revision of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:XFP:REVision?

:SENSe:DATA:TELecom:OPTical:SFP:SERIal:NUMBer?	
Description	This query returns the serial number of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:SERIal:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	Serial_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the serial number of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:XFP:SERIal:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:SPEed?

Description	This query returns the speed of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:SPEed?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the speed of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:SPEed?

:SENSe:DATA:TELeom:OPTical:SFP:TYPE?

Description	This query returns the type of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Type Compliance Code
Syntax	:SENSe:DATA:TELeom:OPTical:SFP:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:TYPE?
See Also	SENSe:DATA:TELeom:OPTical:XFP:TYPE?

:SENSe:DATA:TELecom:OPTical:SFP:VENDor:NAME?

Description	This query returns the vendor name of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:VENDor:NAME?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the vendor name of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:XFP:VENDor:NAME?

:SENSe:DATA:TELecom:OPTical:SFP:WAVelength?	
Description	This query returns the WAVelength value of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Wavelength
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:WAVelength?
Response Syntax	<Wavelength>
Response(s)	Wavelength: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Wavelength of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:WAV?
See Also	SENSe:DATA:TELecom:OPTical:XFP:WAVelength?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:CONNector:TYPE?

Description	This query returns the connector type of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Connector Type
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:CONNector:TYPE?
Response Syntax	<Connector>
Response(s)	Connector: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:CONN:TYPE?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:MODE?	
Description	This query returns the mode of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Mode
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the SFP mode.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:MODE?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:MODule:ID?

Description	This query returns the module ID of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Module ID
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:MODule:ID?
Response Syntax	<Module_ID>
Response(s)	Module_ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the module ID.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:MOD:ID?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:PART:NUMBer?	
Description	This query returns the part number of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Part Number
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	Part_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the part number.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:PART:NUMB?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:REVision?

Description	This query returns the revision of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Hardware Revision.
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:REVision?
Response Syntax	<Revision>
Response(s)	Revision: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the hardware revision.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:REV?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SERIal:NUMBer?	
Description	This query returns the serial number of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SERIal:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	Serial_Number: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the serial number.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:SER:NUMB?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:SPEEd?

Description	This query returns the speed of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Speed
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:SPEEd?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the speed.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:SPE?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:TYPE?	
Description	This query returns the type of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Type
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:TYPE?

:SENSe:DATA:TELeom:OPTical:SLTool:SFP:VENDor:NAME?

Description	This query returns the vendor name of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Vendor Name
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:SFP:VENDor:NAME?
Response Syntax	<Vendor>
Response(s)	Vendor: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the vendor name.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:VEND:NAM?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:WAVelength?	
Description	This query returns the wavelengeth value of the SFP transceiver. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Wavelengeth
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:WAVelength?
Response Syntax	<Wavelength>
Response(s)	Wavelength: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Wavelength.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:WAV?

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > RX (1 - 24)
Syntax	:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 24. Payload: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the payload type. NONE: None PATTERN1: Pattern
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
See Also	SENSe:DATA:TELEcom:PDH:E:PAYLoad:CONTent

:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?	
Description	This query returns the payload content of given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > RX (1 - 24)
Syntax	:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 24.
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload type. NONE, indicates the None as as payload type. PATTERN1, indicates the Pattern as payload type.
Example(s)	SENS:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1 SENS:DATA:TEL:DS100:PAYL:CONT? 1 Returns: PATTERN1
See Also	SENSe:DATA:TELecom:PDH:E:PAYLoad:CONTent?

:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > RX (1-31)
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent <wsp> <Content>, <Payload>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the payload content. Choices are 1 through 31. Payload: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the payload type. NONE: None PATTERN1: Pattern SIGNALING: Signaling MFAS: Multiframe Alignment Signal
Response Syntax	<Payload>
Example(s)	SENS:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
See Also	SENSe:DATA:TELecom:DS:PAYLoad:CONTent

:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent?	
Description	This query returns the payload content of given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > RX (1-31)
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 31.
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload type. NONE, indicates the None as as payload type. PATTERN1, indicates the Pattern as payload type. SIGNALING, indicates the Signaling as payload type. MFAS: Multiframe Alignment Signal.
Example(s)	SENS:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1 SENS:DATA:TEL:PDH:E100:PAYL:CONT? 1 Returns: PATTERN1
See Also	SENSe:DATA:TELecom:DS:PAYLoad:CONTent?

:SOURce:DATA:TELecom:DS[1..n]:MODE

Description	This command sets the channel timeslot data rate for the pattern payload content. At *RST condition, this value is set to E64K. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > DS0 Size
Syntax	:SOURce:DATA:TELecom:DS[1..n]:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the channel timeslot data rate for the pattern payload content. E64K: a timeslot data rate of E64 Kbps uses 8 bits to carry the payload information. E56K: a timeslot data rate of E56 Kbps uses 7 bits to carry the payload information.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:DS:MODE E64K
See Also	SOURce:DATA:TELecom:PDH:E:MODE

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Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:DS[1..n]:MODE?	
Description	This query returns the channel timeslot data rate for the pattern payload content. At *RST condition, this value is set to E64K. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > DS0 Size
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the channel timeslot data rate for the pattern payload content. E64K, timeslot data rate of 64 Kbps uses 8 bits to carry the payload information is selected. E56K, timeslot data rate of 56 Kbps uses 7 bits to carry the payload information is selected.
Example(s)	SOUR:DATA:TEL:DS:MODE E64K SOUR:DATA:TEL:DS:MODE? Returns: E64K
See Also	SOURce:DATA:TELEcom:PDH:E:MODE?

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > TX (1 - 24)
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the payload content. Choices are 1 through 24. Payload: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the payload type. PATTERN1: Pattern IDLE: Idle TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
See Also	SOURce:DATA:TELEcom:PDH:E:PAYLoad:CONTent

:SOURce:DATA:TELeom:DS[1..n]:PAYLoad:CONTent:ALL	
Description	This command sets the payload content of all timeslots to the selected payload content with its Pattern, Idle, or Tone value. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Set All
Syntax	:SOURce:DATA:TELeom:DS[1..n]:PAYLoad:CONTent:ALL
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:ALL
See Also	SOURce:DATA:TELeom:PDH:E:PAYLoad:CONTent:ALL

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent:TYPE

Description	This command selects the type of payload content. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Payload Content
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:CONTent:TYPE <wsp><Payload>
Parameter(s)	Payload: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the payload content. IDLE: Idle PATTERN1: Pattern TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:TYPE PATTERN1
See Also	SOURce:DATA:TELEcom:PDH:E:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE?	
Description	This query returns the type of payload content. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Payload Content
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE?
Response Syntax	<Content Type>
Response(s)	Content Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload content type. IDLE: Idle PATTERN1: Pattern TONE: Tone
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:TYPE PATTERN1 SOUR:DATA:TEL:DS:PAYL:CONT:TYPE? Returns: PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent:TYPE?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?

Description	This query returns the payload content of given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > TX (1 - 24)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 24.
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload type. PATTERN1, Pattern is selected as payload type. IDLE, Idle is selected as payload type. TONE, Tone is selected as payload type.
Example(s)	SOUR:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1 SOUR:DATA:TEL:DS100:PAYL:CONT? 1 Returns: PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent?

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:IDLE	
Description	This command sets the idle code byte from the Idle field. The selected idle code applies to all timeslots set to Idle. At *RST condition, this value is set to #H7F. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Idle
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:IDLE <wsp><Idle>
Parameter(s)	Idle: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the idle code byte from the idle field. The values are hexadecimal #H00 to #HFF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:DS:PAYL:IDLE #H1
See Also	SOURce:DATA:TELEcom:PDH:E:PAYLoad:IDLE

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE?

Description	This query returns the Idle code byte from the Idle field. The selected Idle code applies to all timeslots set to Idle. At *RST condition, this value is set to #H7F. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Idle
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE?
Response Syntax	<Idle>
Response(s)	Idle: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the idle code byte from the idle field. The values are hexadecimal #H00 to #HFF.
Example(s)	SOUR:DATA:TEL:DS:PAYL:IDLE #H1 SOUR:DATA:TEL:DS:PAYL:IDLE? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:IDLE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:TONE	
Description	This command sets the tone for digital milli watt testing. The signal output power, when converted to analog, is 0 dBm. The selected tone applies to all timeslots set to tone. At *RST condition, this value is set to T1004. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Tone (Hz)
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:TONE <wsp><Tone>
Parameter(s)	Tone: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the tone for digital milli watt testing. T1000: the 1000 Hz tone. T1004: the 1004 Hz tone.
Response Syntax	<Idle>
Example(s)	SOUR:DATA:TEL:DS:PAYL:TONE T1000
See Also	SOURce:DATA:TELEcom:PDH:E:PAYLoad:TONE

:SOURce:DATA:TELeom:DS[1..n]:PAYLoad:TONE?

Description	This query returns the tone for digital milli watt testing. At *RST condition, this value is set to T1004. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Tone (Hz)
Syntax	:SOURce:DATA:TELeom:DS[1..n]:PAYLoad:TONE?
Response Syntax	<Tone>
Response(s)	Tone: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selection of a tone for digital milli watt testing. T1000, 1000 Hz is selected as tone. T1004, 1004 Hz is selected as tone.
Example(s)	SOUR:DATA:TEL:DS:PAYL:TONE T1000 SOUR:DATA:TEL:DS:PAYL:TONE? Returns: T1000
See Also	SOURce:DATA:TELeom:PDH:E:PAYLoad:TONE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX	
Description	This command sets enabled / disabled value for apply All Tx values to Rx. At *RST condition, this value is set to ON. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Tone>
Example(s)	SOUR:DATA:TEL:DS:SYNC:TXRX ON
See Also	SOURce:DATA:TELecom:PDH:E:SYNC:TXRX

:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX?

Description	This query returns enabled / disabled value for apply All Tx values to Rx. At *RST condition, this value is set to ON. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Enable or disable value of Apply All Tx to RX. 1, Apply All Tx to RX is enabled. 0, Apply All Tx to RX is disabled.
Example(s)	SOUR:DATA:TEL:DS:SYNC:TXRX ON SOUR:DATA:TEL:DS:SYNC:TXRX? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:SYNC:TXRX?

:SOURce:DATA:TELecom:DS[1..n]:ZCS	
Description	This command sets the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. At *RST condition, this value is set to NONE. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ZCS <wsp><Zcs>
Parameter(s)	Zcs: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the ZCS (Zero Code Suppression) method used to replace the all-zero bytes of the idle and tone payload contents. NONE: no zero code suppression. JBIT8: every 8th (LSB) bit is forced to 1. GTE: bit 8 of an all zero channel byte is replaced by 1, except in signaling frames where bit 7 is forced to 1. ZBELL: bit 7 of an all zero channel byte is replaced by 1.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DS:ZCS NONE
See Also	SOURce:DATA:TELecom:PDH:E:ZCS

:SOURce:DATA:TELecom:DS[1..n]:ZCS?

Description	This query returns the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. At *RST condition, this value is set to NONE. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ZCS?
Response Syntax	<Zcs>
Response(s)	Zcs: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selection of the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. NONE, no zero code suppression is selected. JBIT8, every 8th (LSB) bit is forced to 1 is selected. GTE, bit 8 of an all zero channel byte is replaced by 1, except in signaling frames where bit 7 is forced to 1 is selected. ZBELL, bit 7 of an all zero channel byte is replaced by 1 is selected.
Example(s)	SOUR:DATA:TEL:DS:ZCS NONE SOUR:DATA:TEL:DS:ZCS? Returns: NONE
See Also	SOURce:DATA:TELecom:PDH:E:ZCS?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELecom:PDH:E[1..n]:MODE	
Description	This command selects the channel timeslot data rate for the transmitter. At *RST condition, this value is set to E64K. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > E0 Size
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the channel timeslot data rate for the transmitter. E64K: a timeslot data rate of 64 Kbps uses 8 bits to carry the payload information. E56K: a timeslot data rate of 56 Kbps uses 7 bits to carry the payload information.
Response Syntax	<Zcs>
Example(s)	SOUR:DATA:TEL:PDH:E:MODE E64K
See Also	SOURce:DATA:TELecom:DS:MODE

:SOURce:DATA:TELEcom:PDH:E[1..n]:MODE?

Description	This query returns the channel timeslot data rate for the transmitter. At *RST condition, this value is set to E64K. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > E0 Size
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the channel timeslot data rate for the pattern payload content. E64K, timeslot data rate of 64 Kbps uses 8 bits to carry the payload information is selected. E56K, timeslot data rate of 56 Kbps uses 7 bits to carry the payload information is selected.
Example(s)	SOUR:DATA:TEL:PDH:E:MODE E64K SOUR:DATA:TEL:PDH:E:MODE? Returns: E64K
See Also	SOURce:DATA:TELEcom:DS:MODE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent	
Description	This command sets the payload content to given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > TX (1-31)
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 31. Payload: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the payload type. PATTERN1: Pattern IDLE: Idle TONE: Tone SIGNALING: Signaling MFAS: Multiframe Alignment Signal
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:CONTent

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:ALL

Description	This command sets the payload content of all timeslots to the selected payload content with its Pattern, Idle, or Tone value. At *RST condition, this value is device dependent. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Set All
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:ALL
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:ALL
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent:ALL

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent:TYPE	
Description	This command sets the type of payload content. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Payload Content
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent:TYPE <wsp><Content>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the payload content. PATTERN1: Pattern IDLE: Idle TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE PATTERN1
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELeom:PDH:E[1..n]:PAYLoad:CONTeNT:TYPE?

Description	This query returns the type of payload content. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Payload Content
Syntax	:SOURce:DATA:TELeom:PDH:E[1..n]:PAYLoad:CONTeNT:TYPE?
Response Syntax	<Content Type>
Response(s)	Content Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload content type. PATTERN1, Pattern is selected as payload content type. IDLE, Idle is selected as payload content type. TONE, tone is selected as payload content type.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE PATTERN1 SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE? Returns: PATTERN1
See Also	SOURce:DATA:TELeom:DS:PAYLoad:CONTeNT:TYPE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent?	
Description	This query returns the payload content of given channel number. At *RST condition, this value is set to PATTERN1. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > TX (1-31)
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	Content: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the timeslots for payload content. Choices are 1 through 31.
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the payload type. PATTERN1, Pattern is selected as payload type. IDLE, Idle is selected as payload type. TONE, Tone is selected as payload type. SIGNALING, Signaling is selected as payload type. MFAS, Multiframe Alignment Signal
Example(s)	SOUR:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1 SOUR:DATA:TEL:PDH:E100:PAYL:CONT? 1 Returns: PATTERN1
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:CONTent?

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE

Description	This command sets the idle code byte from the idle field. The selected idle code applies to all timeslots set to idle. At *RST condition, this value is set to #H7F. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Idle
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE <wsp><Idle>
Parameter(s)	Idle: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the idle code byte from the idle field. The values are hexadecimal #H00 through #HFF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:IDLE #H1
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:IDLE

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE?	
Description	This query returns the idle code byte from the idle field. At *RST condition, this value is set to #H7F. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Idle
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:IDLE?
Response Syntax	<Idle>
Response(s)	Idle: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the idle code byte from the idle field. The values are hexadecimal #H00 to #HFF.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:IDLE #H1 SOUR:DATA:TEL:PDH:E:PAYL:IDLE? Returns: 1
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:IDLE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE

Description	This command sets the tone for digital milli watt testing. The signal output power, when converted to analog, is 0 dBm. The selected tone applies to all timeslots set to tone. At *RST condition, this value is set to T1004. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Tone (Hz)
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE <wsp><Tone>
Parameter(s)	Tone: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of a tone for digital milli watt testing. T1000: 1000 Hz T1004: 1004 Hz
Response Syntax	<Idle>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:TONE T1000
See Also	SOURce:DATA:TELecom:DS:PAYLoad:TONE

:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:TONE?	
Description	This query returns the tone for digital milli watt testing. At *RST condition, this value is set to T1004. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Tone (Hz)
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:PAYLoad:TONE?
Response Syntax	<Tone>
Response(s)	Tone: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selection of a tone for digital milli watt testing. T1000, 1000 Hz is selected as tone. T1004, 1004 Hz is selected as tone.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:TONE T1000 SOUR:DATA:TEL:PDH:E:PAYL:TONE? Returns: T1000
See Also	SOURce:DATA:TELEcom:DS:PAYLoad:TONE?

:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX

Description	This command sets enabled / disabled value for apply All Tx values to Rx. At *RST condition, this value is set to ON. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Tone>
Example(s)	SOUR:DATA:TEL:PDH:E:SYNC:TXRX ON
See Also	SOURce:DATA:TELecom:DS:SYNC:TXRX

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SOURce:DATA:TELEcom:PDH:E[1..n]:SYNC:TXRX?	
Description	This query returns enabled / disabled value for apply All Tx values to Rx. At *RST condition, this value is set to ON. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:SYNC:TXRX?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns Enable or disable value of Apply All Tx to RX. 1, Apply All Tx to RX is enabled. 0, Apply All Tx to RX is disabled.
Example(s)	SOUR:DATA:TEL:PDH:E:SYNC:TXRX ON SOUR:DATA:TEL:PDH:E:SYNC:TXRX? Returns: 1
See Also	SOURce:DATA:TELEcom:DS:SYNC:TXRX?

:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS

Description	This command sets the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. At *RST condition, this value is set to NONE. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS <wsp> <Zcs>
Parameter(s)	Zcs: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the selection of the Zero Code Suppression (ZCS) method. NONE: No zero Code Suppression. JBIT8: every 8th (LSB) bit is forced to 1.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:E:ZCS NONE
See Also	SOURce:DATA:TELEcom:DS:ZCS

:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS?	
Description	This query returns the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. At *RST condition, this value is set to NONE. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:ZCS?
Response Syntax	<Zcs>
Response(s)	Zcs: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selection of the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents. NONE, no zero code suppression is selected. JBIT8, every 8th (LSB) bit is forced to 1 is selected.
Example(s)	SOUR:DATA:TEL:PDH:E:ZCS NONE SOUR:DATA:TEL:PDH:E:ZCS? Returns: NONE
See Also	SOURce:DATA:TELEcom:DS:ZCS?

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELeom:CPRI:OBSai:LINK:LIVE?

Description	This Query returns the OBSAI live Sync status. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Sync status
Syntax	:FETCh:DATA:TELeom:CPRI:OBSai:LINK:LIVE?
Response Syntax	<Link Status>
Response(s)	Link Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Live link status for State machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:LINK:LIVE?
See Also	SOURce:DATA:TELeom:CPRI:OBSai:FCBGen?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:PTARGet?	
Description	This Query returns the OBSAI RP3 Frame Peer Target Address. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RP3 Address > Peer Target
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:PTARGet?
Response Syntax	<Peer Target Address>
Response(s)	Peer Target Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Peer Target Address.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:ADDR:PTAR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:TARGet?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:KMG?

Description	This Query returns the OBSAI RP3 Idle Message Per Group. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Idle/Grp (K_MG)
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:KMG?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Number of idle messages per Group.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:KMG?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:MMG?	
Description	This Query returns the OBSAI RP3 Messages Per Group. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Msg/Grp (M_MG)
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:MESSages:MMG?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Number of message per Group.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:MMG?
See Also	FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:SFN?

:FETCh:DATA:TELeom:CPRI:OBSai:RPFRame:MESSages:NMG?

Description	This Query returns the OBSAI RP3 Message Group Per Frame. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Msg Grp/Frame (N_MG)
Syntax	:FETCh:DATA:TELeom:CPRI:OBSai:RPFRame:MESSages:NMG?
Response Syntax	<Message Group Per Frame>
Response(s)	Message Group Per Frame: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Number of message Group per Frame.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:NMG?
See Also	FETCh:DATA:TELeom:CPRI:OBSai:MESSages:SFN?

:FETCh:DATA:TELecom:CPRI:OBSai:RXSeed?	
Description	This Query returns the OBSAI RX Seed value. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - RX Seed
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RXSeed?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return RX Seed Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RXS?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?

Description	This Query returns the OBSAI RX State Machine live status. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK - Sync RX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?
Response Syntax	<RX State machine>
Response(s)	RX State machine: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return Live status for RX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:REC:LIVE?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:TRANsmit:LIVE?	
Description	This Query returns the OBSAI TX State Machine live status. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK - Sync TX
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:STATe:TRANsmit:LIVE?
Response Syntax	<TX State machine>
Response(s)	TX State machine: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return Live status for TX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:TRAN:LIVE?
See Also	FETCh:DATA:TELEcom:CPRI:OBSai:STATe:TRANsmit:LAST?

:FETCh:DATA:TELeom:CPRI:PORT:ETHernet:RATE?

Description	This query return the CPRI Ethernet Channel value. At *RST condition, this value is set to337.92. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Rate This Rate is configured with Sub channel value and its unit is Mbit/s.
Syntax	:FETCh:DATA:TELeom:CPRI:PORT:ETHernet:RATE?
Response Syntax	<Ethernet Rate>
Response(s)	Ethernet Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Ethernet Rate.
Example(s)	FETC:DATA:TEL:CPRI:PORT:ETH:RATE? Returns the Ethernet Rate in Mbit/s
See Also	FETCh:DATA:TELeom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELeom:CPRI:PORT:FSYNc:STATus?	
Description	This query return the CPRI Frame Sync Status. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface CPRI > LINK > Sequence - Frame Sync
Syntax	:FETCh:DATA:TELeom:CPRI:PORT:FSYNc:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Sequence Sate.
Example(s)	FETC:DATA:TEL:CPRI:PORT:FSYN:STAT?
See Also	FETCh:DATA:TELeom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?

Description	This query returns the CPRI Link Status shall report a Up/Down. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface CPRI > LINK
Syntax	:FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?
Response Syntax	<Status.>
Response(s)	Status.: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the CPRI Link Status.
Example(s)	FETC:DATA:TEL:CPRI:PORT:LINK:STAT?
See Also	FETCh:DATA:TELecom:CPRI:PORT:SState?

:FETCh:DATA:TELeom:CPRI:PORT:SSTate?	
Description	This query return the CPRI Sequence State. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Sequence
Syntax	:FETCh:DATA:TELeom:CPRI:PORT:SSTate?
Response Syntax	<Sequence State>
Response(s)	Sequence State: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Sequence State.
Example(s)	FETC:DATA:TEL:CPRI:PORT:SSTate?
See Also	FETCh:DATA:TELeom:CPRI:PORT:LINK:STATus?

:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

Description	This query returns the live status of Ethernet LINK alarm (parallel interfaces or serial interfaces 25G and up). At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:LINK? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. - For parallel and serial interfaces: LFAR: Local Fault Received LFAD: Local Fault Detected RFAult: Remote Fault - For parallel interfaces: LDOWn: Link Down HIBer: HIBer LOA: Loss of Alignment INVM: Invalid Mapping HISer: Hi-SER LDSErD: Local Degraded SER Detected LDSErR: Local Degraded SER Received RDSEr: Remote Degraded SER
Response Syntax	<Status>

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?	
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the status of the Ethernet alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LINK? LFAR
See Also	SOURce:DATA:TELecom:PATtern:ALARm:SYNCh?

:FETCh:DATA:TELeom:ETHernet:FEC:ALARm:LINK?

Description	This query returns the live status of FEC Ethernet LINK alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELeom:ETHernet:FEC:ALARm:LINK? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. FECLOA: FEC-LOA Live alarm FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the status of the Ethernet alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:FEC:ALAR:LINK? FECLOA
See Also	FETCh:DATA:TELeom:ETHernet:ALARm:LINK?

:FETCh:DATA:TELEcom:ETHernet:LINK:LRATe:GLOBal:STATus?	
Description	This query returns the live LINK status for an Ethernet interface (rates up to 25G or FlexE client). At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK Navigation Path: Setup > Test Configurator > FlexE Group > Link
Syntax	:FETCh:DATA:TELEcom:ETHernet:LINK:LRATe:GLOBal:STATus?
Response Syntax	<Link Status>
Response(s)	Link Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Gets the link status. 1, indicates Link Up 0, indicates Link Down
Example(s)	Under EtherBERT FETC:DATA:TEL:ETH:LINK:LRAT:GLOB:STAT? Under FlexEBert SOUR:DATA:TEL:FETH:CLI:ID? SOUR:DATA:TEL:FETH:CLI:ID 1 FETC:DATA:TEL:ETH:LINK:LRAT:GLOB:STAT?
See Also	SOUR:DATA:TEL:FETH:CLI:ID?

:FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?

Description	This query returns the speed. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Speed
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the speed for the selected instrument port. B100MBPS, 100M speed is selected. B10MBPS,10M speed is selected. B1GBPS, 1GBPS speed is selected. B2P5GBPS, 2.5GBPS speed is selected. B5GBPS, 5GBPS speed is selected. B10GBPS, 10GBPS speed is selected.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?	
Description	This query returns the duplex type. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?
Response Syntax	<Duplex>
Response(s)	Duplex: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex type for the selected instrument port. FULL, Full Duplex is selected as duplex type. HALF,Half Duplex is selected as duplex type.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?

:FETCh:DATA:TELEcom:ETHernet:PORT:FCONtrol?

Description	This query returns the flow control. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:FETCh:DATA:TELEcom:ETHernet:PORT:FCONtrol?
Response Syntax	<Fcantrol>
Response(s)	Fcantrol: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control for the selected instrument port. TX, Tx is selected as flow control. RX, Rx is selected as flow control. RXANDTX, RX and TX is selected as flow control. NONE, None is selected as flow control.
Example(s)	FETCh:DATA:TELEcom:ETHernet:PORT:FCONtrol?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:CLOCK?

:FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:CLOCK?	
Description	This query returns type of Local Clock selected. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:CLOCK?
Response Syntax	<Clock Type>
Response(s)	Clock Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns clock type MASTER, Master clock type is selected. SLAVE,Slave clock type is selected. AUTO,Auto clock type is selected.
Example(s)	FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:CLOCK?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:FCONtrol?

:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK?

Description	This query returns the WIS Link alarm status for 10GE WAN interface. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Interface > LINK > WIS Link
Syntax	:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK? <wsp><LINK>
Parameter(s)	LINK: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the WIS LINK. WLD,select WLD Link Type.
Response Syntax	<Link>
Response(s)	Link: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the WIS LINK Alarm Status. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that there is no error. INACTIVE, indicates that the test is not running. MASKED,Returns Masked Wis Link
Example(s)	FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK? WLD
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNT?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELeom:FIBer:LINK?	
Description	This query returns the status of the FC Primitive Sequence Protocol (PSP) link. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELeom:FIBer:LINK?
Response Syntax	<Link>
Response(s)	Link: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Gets the link status. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred.
Example(s)	FETC:DATA:TEL:FIB:LINK?
See Also	FETCh:DATA:TELeom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:LINK:GLOBal:STATus?

Description	This query returns the status of Link. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > 40/50/100/400GE > LINK
Syntax	:FETCh:DATA:TELecom:LINK:GLOBal:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the link status.
Example(s)	FETC:DATA:TEL:LINK:GLOB:STAT?
See Also	SOURce:DATA:TELecom:ETH:ERR:PHYS:AUT?

:SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?	
Description	This query returns the CPRI Ethernet Rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Ethernet Received > Rate
Syntax	:SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?
Response Syntax	<Ethernet Rate>
Response(s)	Ethernet Rate: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Ethernet Rate.
Example(s)	SENS:DATa:TEL:CPRI:PORT:ETH:RATE?
See Also	SENSe:DATA:TELecom:CPRI:PORT:HDLC:RATE?

:SENSe:DATA:TELeom:CPRI:PORT:HDLC:RATE?

Description	This query returns the CPRI HDLC Rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > HDLC Received > Rate
Syntax	:SENSe:DATA:TELeom:CPRI:PORT:HDLC:RATE?
Response Syntax	<HDLC Rate>
Response(s)	HDLC Rate: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the HDLC Rate.
Example(s)	SENS:DATA:TEL:CPRI:PORT:HDLC:RATE?
See Also	SENSe:DATA:TELeom:CPRI:PORT:ETHernet:RATE?

:SENSe:DATA:TELecom:CPRI:PORT:PROTOcol:VERSIon?	
Description	This query returns the CPRI Protocol version received/negotiated. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol > Protocol Version Received/Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:PORT:PROTOcol:VERSIon?
Response Syntax	<Protocol Version>
Response(s)	Protocol Version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Protocol version.
Example(s)	SENS:DATa:TEL:CPRI:PORT:PROT:VERS?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:PROTOcol:VERSIon?

:SOURce:DATA:TELeom:CPRI:FEC:ENABle

Description	This command enables/disables RS-FEC. At *RST, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > RS-FEC
Syntax	:SOURce:DATA:TELeom:CPRI:FEC:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Protocol Version>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ENAB ON SOUR:DATA:TEL:CPRI:FEC:ENAB? Returns 1
See Also	SOURce:DATA:TELeom:CPRI:FEC:ENABle

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:CPRI:FEC:ENABLE?	
Description	This query returns the enable/disable status of RS-FEC. At *RST, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > RS-FEC
Syntax	:SOURce:DATA:TELeom:CPRI:FEC:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1:Enabled 0:Disabled
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ENAB ON SOUR:DATA:TEL:CPRI:FEC:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:CPRI:FEC:ENABLE?

:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

Description	This command enables/disables the OBSAI Frame Clock Burst Generation. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Frame Clock Burst Generation
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the OBSAI Frame Clock Burst Generation. OFF, disables the OBSAI Frame Clock Burst Generation.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FCBG ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:SCRamble

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?	
Description	This Query returns the OBSAI Frame Clock Burst Generation enable status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Frame Clock Burst Generation
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?
Response Syntax	<Frame Clock Burst Generation Status>
Response(s)	Frame Clock Burst Generation Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return FCB Generation enable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FCBG?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:SCRamble?

:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle

Description	This command sets the OBSAI Force TX Idle Status. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > interface OBSAI > Interface Page> Force TX Idle.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the Force TX Idle. OFF, disables the Force TX Idle.
Response Syntax	<Frame Clock Burst Generation Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FTID ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:CPRI:OBSai:FTIDle?	
Description	This Query returns the OBSAI Force TX Idle Status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Force TX Idle.
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:FTIDle?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return the Force TX Idle status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FTID?
See Also	SOURce:DATA:TELeom:CPRI:OBSai:FCBGen?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:MISMatch	
Description	This command enables/disables the OBSAI RP3 Address Mismatch check box. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Address Mismatch
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:MISMatch <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the OBSAI RP3 Address Mismatch. OFF, disables the OBSAI RP3 Address Mismatch.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:MISM ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FTIDle

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:MISMatch?	
Description	This Query returns the OBSAI RP3 Address Mismatch Status. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Address Mismatch
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:MISMATCH?
Response Syntax	<AddressMismatch>
Response(s)	AddressMismatch: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Address Mismatch enable/disable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:MISM?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FTIDle?

**:SOURce:DATA:TELeom:CPRI:OBSai:RPFRame:ADDRes:SOU
Rce**

Description	This command sets the OBSAI RP3 Frame Source Address. At *RST condition, this value is set to 0x1234. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Source
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:RPFRame:ADDRes:SOURce[<wsp><Address>]
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets RP3 Source Address.
Response Syntax	<AddressMismatch>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:SOUR #H1111
See Also	SOURce:DATA:TELeom:CPRI:OBSai:RPFRame:ADDRes:TARGet

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOU Rce?	
Description	This Query returns the OBSAI RP3 Frame Source Address. At *RST condition, this value is set to 0x1234. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Source
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns RP3 Source Address.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:SOUR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:TARGet	
Description	This command sets the OBSAI RP3 Frame Target Address. At *RST condition, this value is set to 0x1234. Navigation Path: Setup > Test Configurator > interface OBSAI > Interface Page>Target Address.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:TARGet[<wsp><Address>]
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets Target Address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:TARG #H1111
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDReSS:SOURce

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:TARGet?	
Description	This Query returns the OBSAI RP3 Frame Target Address. At *RST condition, this value is set to 0x1234. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Target
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:TARGet?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns RP3 Target Address.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:TARG?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRes:SOURce?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE	
	PE
Description	This command sets the OBSAI RP3 Message Type. At *RST condition, this value is set to WCDMA/FDD. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Message > Type
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE[<wsp> <Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Message Type. WCDMA_FDD: WCDMA/FDD, LTE: LTE, GSM_EDGE: GSM/EDGE, 802_16: 802.16
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:MESS:TYPE LTE
See Also	SOURce:DATA:TELecom:CPRI:OBSai:TXSeed

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?	
Description	This Query returns the OBSAI RP3 Message Type. At *RST condition, this value is set to WCDMA/FDD. Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Message > Type
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns RP3 Message Type.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:MESS:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?

:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble

Description	This command enables/disables the OBSAI Scrambling. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, Enables the OBSAI Scrambling. OFF, disables the OBSAI Scrambling.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:SCR ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:CPRI:OBSai:SCRamble?	
Description	This Query returns the OBSAI enable/disable scrambling status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Scrambling
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:SCRamble?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns Scrambling enable/disable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:SCR?
See Also	SOURce:DATA:TELeom:CPRI:OBSai:FCBGen?

:SOURce:DATA:TELeom:CPRI:OBSai:TXSeed

Description	This command sets the OBSAI TX Seed value. At *RST condition, this value is set to 0x01. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - TX Seed.
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:TXSeed[<wsp><Set>]
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TX Seed Hex value from below list. T_0X01: 0x01, T_0X03: 0x03, T_0X05: 0x05, T_0X07: 0x07, T_0X09: 0x09, T_0X0F: 0x0F, T_0X11: 0x11, T_0X15: 0x15, T_0X1A: 0x1A, T_0X1B: 0x1B, T_0X2D: 0x2D, T_0X2E: 0x2E, T_0X33: 0x33, T_0X3F: 0x3F, T_0X54: 0x54, T_0X73: 0X73, T_0X76: 0x76, T_0X7D: 0x7D
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:TXS T_0X01
See Also	SOURce:DATA:TELeom:CPRI:OBSai:RPFRame:MESSages:TYPE

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?	
Description	This Query returns the OBSAI TX Seed value. At *RST condition, this value is set to 0x01. Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - TX Seed
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?
Response Syntax	<TX Seed Count>
Response(s)	TX Seed Count: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return TX Seed Count.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:TXS?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?

:SOURce:DATA:TELeom:CPRI:PORT:CMCHannel

Description	This command sets the CPRI C&M Channel Type. At *RST condition, this value is set to AUTO. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:CMCHannel[<wsp><C&M Channel>]
Parameter(s)	C&M Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Protocol C&M Channel Type value. AUTO DISABLED ETHeTnet HDLC
Response Syntax	<TX Seed Count>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:CMCH HDLC
See Also	SOURce:DATA:TELeom:CPRI:PORT:PROTOcol

:SOURce:DATA:TELeom:CPRI:PORT:CMCHannel?	
Description	This query returns the CPRI C&M Channel Type. At *RST condition, this value is set to AUTO. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:CMCHannel?
Response Syntax	<C&M Channel>
Response(s)	C&M Channel: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the C&M Channel type. Auto, Auto is selected. HDLC, HDLC is selected. Ethernet, Ethernet is selected.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:CMCH?
See Also	SOURce:DATA:TELeom:CPRI:PORT:PROTOcol?

:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE

Description	This command sets the CPRI HDLC channel value. At *RST condition, this value is set to 7.680. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > HDLC > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the HDLC Rate. RATE240, get the 0.240 HDLC rate. RATE480, get the 0.480 HDLC rate. RATE960, get the 0.960 HDLC rate. RATE1920,get the 1.920 HDLC rate. RATE2400,get the 2.400 HDLC rate. RATE7680,get the 2.400 HDLC rate. RATEPROPRIETARY, get the Proprietary HDLC rate.
Response Syntax	<C&M Channel>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE RATE1920
See Also	SOURce:DATA:TELecom:CPRI:PORT:PROTOcol

:SOURce:DATA:TELeom:CPRI:PORT:HDLC:RATE?	
Description	This query returns the HDLC Channel value. At *RST condition, this value is set to 7.680. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > HDLC > Rate
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:HDLC:RATE?
Response Syntax	<HDLC>
Response(s)	HDLC: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the HDLC Rate. RATE240, get the 0.240 HDLC rate. RATE480, get the 0.480 HDLC rate. RATE960, get the 0.960 HDLC rate. RATE1920, get the 1.920 HDLC rate. RATE2400, get the 2.400 HDLC rate. RATE7680, get the 2.400 HDLC rate. RATEPROPRIETARY, get the Proprietary HDLC rate.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE RATE1920 SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE? Returns the HDLC RATE: RATE1920
See Also	SOURce:DATA:TELeom:CPRI:PORT:CMCHannel?

:SOURce:DATA:TELeom:CPRI:PORT:PROTOcol

Description	This command sets the CPRI Protocol Version Type. At *RST condition, this value is set to AUTO. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:PROTOcol[<wsp><Protocol Version>]
Parameter(s)	Protocol Version: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Protocol Version Type value. AUTO VERSION1 VERSION2
Response Syntax	<HDLC>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:PROT VERSION1
See Also	SOURce:DATA:TELeom:CPRI:PORT:CMChannel

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:CPRI:PORT:PROTOcol?	
Description	This query return the CPRI Protocol Version Type. At *RST condition, this value is set to AUTO. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:PROTOcol?
Response Syntax	<Protocol version>
Response(s)	Protocol version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Protocol Version type. Auto, Auto is selected. Verson1, Verson1 , is selected.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:PROT?
See Also	SOURce:DATA:TELeom:CPRI:PORT:CMCHannel?

:SOURce:DATA:TELeom:CPRI:PORT:SUBChannel

Description	This command sets the CPRI Ethernet Sub Channel rate by setting appropriate value. At *RST condition, this value is set to 20. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Subchannel
Syntax	:SOURce:DATA:TELeom:CPRI:PORT:SUBChannel <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Sub channel Number. MAXimum, sets the Sub channel Number as maximum. MINimum, sets the Sub channel Number as minimum. DEFault, sets the Sub channel Number as default value.
Response Syntax	<Protocol version>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:SUBC 30
See Also	SOURce:DATA:TELeom:CPRI:ERRor:MANual:AMOUnt

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel?	
Description	This query return the CPRI Ethernet Sub Channel rate by setting appropriate value. At *RST condition, this value is set to 20. Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Subchannel
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Get the Sub channel Number. Range: 20 to 63. MAXimum, get the Sub channel Number as maximum. MINimum, get the Sub channel Number as minimum. DEFault, get the Sub channel Number as default value.
Response Syntax	<SubChannel>
Response(s)	SubChannel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX rate. MAXimum, Gets the frame size as maximum. MINimum, Gets the frame size as minimum.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:SUBC 30 SOUR:DATA:TEL:CPRI:PORT:SUBC? Returns 30 SOUR:DATA:TEL:CPRI:PORT:SUBC? MIN SOUR:DATA:TEL:CPRI:PORT:SUBC? MAX
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUnt?

:SOURce:DATA:TELeom:CPRI:UNFRamed:SCRamble:ENABLE

Description	This command enables CPRI Scrambling for unframed test. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > Interface CPRI > Scrambling
Syntax	:SOURce:DATA:TELeom:CPRI:UNFRamed:SCRamble:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<SubChannel>
Example(s)	SOUR:DATA:TEL:CPRI:UNFR:SCR:ENAB ON
See Also	SOURce:DATA:TELeom:CPRI:VERDict:ENABLE

:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABLE?	
Description	This query returns the status of CPRI Scrambling for unframed test. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > Interface CPRI > Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:UNFR:SCR:ENAB?
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABLE?

:SOURce:DATA:TELeom:ETHernet:FEC:DSER:ENABLE

Description	This command enables/disables FEC Degraded SER. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER
Syntax	:SOURce:DATA:TELeom:ETHernet:FEC:DSER:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB ON SOUR:DATA:TEL:ETH:FEC:DSER:ENAB? Returns 1
See Also	SOURce:DATA:TELeom:ETHernet:FEC:ENABLE

:SOURce:DATA:TELeom:ETHernet:FEC:DSER:ENABLE?	
Description	This query returns the FEC Degraded SER status. At *RST, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER
Syntax	:SOURce:DATA:TELeom:ETHernet:FEC:DSER:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB ON SOUR:DATA:TEL:ETH:FEC:DSER:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:FEC:ENABLE?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

Description	This command sets the value of FEC Degraded SER Activate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Degraded SER Activate Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACTivate

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?	
Description	This query returns the value of FEC Degraded SER Activate Threshold. Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?[<wsp><Token>]
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of FEC Degraded SER Activate Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI 123 SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI? Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACTivate?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate

Description	This command sets the value of FEC Degraded SER Deactivate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Degraded SER Deactivate Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?	
Description	This query returns the value of FEC Degraded SER Deactivate Threshold. Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?[<wsp> <Token>]
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of FEC Degraded SER Deactivate Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 123 SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC? Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTERval

Description	This command sets the value of FEC Degraded SER Interval. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds>Interval(CW)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTERval <wsp><Interval>
Parameter(s)	Interval: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Degraded SER Interval. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval?	
Description	This query returns the value of FEC Degraded SER Interval. Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Threshold > Interval(CW)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval?[<wsp><Token>]
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of FEC Degraded SER Interval is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE 123 SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE? Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

:SOURce:DATA:TELeom:ETHernet:FEC:ENABLE

Description	This command enables/disables RS-FEC. At *RST, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > RS-FEC (RX Only)
Syntax	:SOURce:DATA:TELeom:ETHernet:FEC:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:ENAB ON SOUR:DATA:TEL:ETH:FEC:ENAB? Returns 1
See Also	SOURce:DATA:TELeom:ETHernet:FEC:ENABle

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:FEC:ENABle?	
Description	This query returns the enalbe/disable status of RS-FEC (RX Only). At *RST, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Interface > RS-FEC (RX Only)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:FEC:ENAB ON SOUR:DATA:TEL:ETH:FEC:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:FEC:ENABle?

:SOURce:DATA:TELEcom:ETHernet:HRATe:RFE:ENABLE

Description	This command enables the configure Remote Fault Emulation for parallel interfaces. At *RST, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELEcom:ETHernet:HRATe:RFE:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:HRATe:RFE:ENABLE?

:SOURce:DATA:TELeom:ETHernet:HRATe:RFE:ENABle?	
Description	This query returns the Remote Fault Emulation status for parallel interfaces. At *RST, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELeom:ETHernet:HRATe:RFE:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB ON SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:HRATe:RFE:ENABle

:SOURce:DATA:TELEcom:ETHernet:LRATe:RFE:ENABLE

Description	This command enables the Remote Fault Emulation for serial interfaces. At *RST, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELEcom:ETHernet:LRATe:RFE:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:LRATe:RFE:ENABLE?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:ETHernet:LRATe:RFE:ENABle?	
Description	This query returns the Remote Fault Emulation status for serial interfaces. At *RST, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELeom:ETHernet:LRATe:RFE:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB ON SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:LRATe:RFE:ENABle

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth

Description	This command sets the transmitted bandwidth when Auto-Negotiation is enabled. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth <wsp><Bandwidth>
Parameter(s)	Bandwidth: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the speed of the module. B10Mbps: 10 Mbit/s B100Mbps: 100 Mbit/s B1Gbps: 1 Gbit/s AUTO: Auto B2P5GBPS: 2.5 Gbit/s B5GBPS: 5 Gbit/s B10GBPS: 10 Gbit/s
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth AUTO SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth? Returns: AUTO
See Also	SOURce:DATA:TELecom:ETH:PORT:DUPL SOURce:DATA:TELecom:ETH:PORT:DUPL?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?	
Description	This query returns the value of transmitted bandwidth when Auto-Negotiation is enabled. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of transmitted bandwidth for the selected instrument when Autoneg is enabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth AUTO SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth? Returns: AUTO
See Also	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol

**:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPL
ex**

Description	This command sets the duplex mode when Auto-Negotiation is enabled. At *RST condition, this value is set to FULL. Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex <wsp><Duplex>
Parameter(s)	Duplex: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the duplex mode for the instrument. FULL HALF AUTO
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex FULL SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex? Returns: FULL
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?	
Description	This query returns the duplex mode when Auto-Negotiation is enabled. At *RST condition, this value is set to FULL. Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?
Response Syntax	<Duplex>
Response(s)	Duplex: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex value. FULL, full duplex mode is selected. HALF, Half duplex mode is selected. AUTO,Auto duuplex mode is selected
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex FULL SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex? Returns: Full
See Also	SOURce:DATA:TELecom:ETH:PORT:DUPL SOURce:DATA:TELecom:ETH:PORT:DUPL?

**:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCON
trol**

Description	This command selects the flow control when Auto-Negotiation is enabled. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONTROL <wsp> <Control>
Parameter(s)	Control: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the flow control NONE: No flow control RX: Transmitter to receiver (Enable RX) TX: Receiver to transmitter (Enable TX) RXANDTX: RX and TX AUTO: Auto
Response Syntax	<Duplex>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONTROL NONE SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONTROL? Returns: NONE
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?	
Description	This query returns the flow control when Auto-Negotiation is enabled. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?
Response Syntax	<Control>
Response(s)	Control: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control. NONE, Flow control is none. RX,Flow control is enable rx. TX,Flow control is enable tx. RXANDTX,Flow control is RXANDTX. AUTO,Flow control is Auto.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol NONE SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol? Returns: NONE
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELeom:ETHernet:PORT:BANDwidth

Description	This command sets the transmitted bandwidth. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELeom:ETHernet:PORT:BANDwidth <wsp><Bandwidth>
Parameter(s)	Bandwidth: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the speed of the module. B10Mbps: 10 Mbit/s B100Mbps: 100 Mbit/s B1Gbps: 1 Gbit/s B2P5GBPS: 2.5 Gbit/s B5GBPS: 5 Gbit/s B10GBPS: 10 Gbit/s
Response Syntax	<Control>
Example(s)	SOUR:DATA:TEL:ETH:PORT:BAND B1GBPS SOUR:DATA:TEL:ETH:PORT:BAND? Returns: B1GBPS
See Also	SOURce:DATA:TELeom:ETHernet:PORT:ANEGotiation:DUPLex SOURce:DATA:TELeom:ETHernet:PORT:ANEGotiation:DUPLex?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?	
Description	This query returns the value of transmitted bandwidth. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the bandwidth in bps. B10Mbps, 10Mbps speed is selected. B100Mbps, 100Mbps speed is selected. B1Gbps, 1Gbps speed is selected. B2P5GBPS, 2.5Gbps speed is selected. B5GBPS, 5Gbps speed is selected. B10GBPS, 10Gbps speed is selected.
Example(s)	SOUR:DATA:TEL:ETH:PORT:BAND B1GBPS SOUR:DATA:TEL:ETH:PORT:BAND? Returns: B1GBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE

Description	This command sets the cable mode. Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Cable mode. MANual AUTomatic
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE MANUAL SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE? Returns: MANUAL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATuS	
Description	This command sets the cable type (MDI or MDIX). Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the cable type. MDIX: Media Dependant Interface Crossover (crossover Ethernet cable) MDI: Media Dependant Interface (straight through Ethernet cable)
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus MDIX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATUs?

Description	This query returns the cable type (MDI or MDIX). Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the cable type. MDIX, Media Dependant Interface Crossover (crossover Ethernet cable) is selected as cable type. MDI, Media Dependant Interface (straight through Ethernet cable) is seleted as cable type
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus MDIX SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus? Returns: MDIX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?	
Description	This query returns the Cable mode. Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?
Response Syntax	<Cable Mode>
Response(s)	Cable Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the cable mode MANUAL, selected cable mode is Manual. AUTOMATIC, selected cable mode is Automatic.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE MANUAL SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE? Returns: MANUAL
See Also	SOURce:DATA:TELecom:PATtern:ALARm:SYNCh?

:SOURce:DATA:TELeom:ETHernet:PORT:DUPLex

Description	This command sets the duplex mode. At *RST condition, this value is set to FULL. Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELeom:ETHernet:PORT:DUPLex <wsp><Duplex>
Parameter(s)	Duplex: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the duplex mode for the instrument. FULL HALF
Response Syntax	<Cable Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DUPL FULL SOUR:DATA:TEL:ETH:PORT:DUPL? Returns: FULL
See Also	SOURce:DATA:TELeom:ETHernet:PORT:ANEGotiation:BANDwidth SOURce:DATA:TELeom:ETHernet:PORT:ANEGotiation:BANDwidth?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?	
Description	This query returns the duplex mode. At *RST condition, this value is set to FULL. Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?
Response Syntax	<Duplex>
Response(s)	Duplex: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex value. FULL, full duplex mode is selected. HALF, Half duplex mode is selected.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DUPL FULL SOUR:DATA:TEL:ETH:PORT:DUPL? Returns: FULL
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol

Description	This command selects the flow control. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol <wsp><Control>
Parameter(s)	Control: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the flow control NONE: No flow control RX: Transmitter to receiver (Enable RX) TX: Receiver to transmitter (Enable TX) RXANDTX: RX and TX
Response Syntax	<Duplex>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol TX SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol? Returns: TX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK?

:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?	
Description	This query returns the flow control. At *RST condition, this value is set to NONE. Navigation Path: Setup > Test Configurator > Interface > LINK > Flow control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?
Response Syntax	<Control>
Response(s)	Control: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control. NONE, No flow control is selected. RX, Enable RX is selected. TX, Enable TX is selected. RXANDTX,Enable RXANDTX is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol TX SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol? Returns: TX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK

Description	This command sets the Local Clock Type. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the clock type. MASTER, Master clock type is selected. SLAVE, Slave clock type is selected. AUTO, Auto clock type is selected.
Response Syntax	<Control>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK MASTER SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK? Returns: MASTER
See Also	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?

:SOURce:DATA:TELeom:ETHernet:PORT:LOCal:CLOCK?	
Description	This query returns type of Local Clock selected. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:SOURce:DATA:TELeom:ETHernet:PORT:LOCal:CLOCK?
Response Syntax	<Clock Type>
Response(s)	Clock Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns clock type MASTER, Master clock type is selected. SLAVE, Slave clock type is selected. AUTO, Auto clock type is selected.
Example(s)	SOURce:DATA:TELeom:ETHernet:PORT:LOCal:CLOCK MASTER SOURce:DATA:TELeom:ETHernet:PORT:LOCal:CLOCK? Returns: MASTER
See Also	SOURce:DATA:TELeom:ETHernet:PORT:CABLe:MODE:STATus

:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation

Description	This command enables Auto-Negotiation. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > LINK > Auto-Negotioation check box
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the auto-negotiation for the selected instrument port status. ON,Enables auto-negotiation for the selected instrument port. OFF,Disables auto-negotiation for the selected instrument port.
Response Syntax	<Clock Type>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation ON SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUNT

:SOURce:DATA:TELEcom:ETHernet:PORT:NEGotation?	
Description	This query returns the status of Auto-Negotiation. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > LINK > Auto-Negotioation check box
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:NEGotation?
Response Syntax	<status>
Response(s)	status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of auto-negotiation for the selected instrument port. 1, Auto-negotiation for the selected instrument port is enabled. 0, Auto-negotiation for the selected instrument port is disabled.
Example(s)	SOURce:DATA:TELEcom:ETHernet:PORT:NEGotation ON SOURce:DATA:TELEcom:ETHernet:PORT:NEGotation? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMOUNT?

:SOURce:DATA:TELEcom:ETHernet:PRECoding

Description	This command enables Precoding for 8x100GE. At *RST condition, this value is set to On. Navigation Path: Setup > Test Configurator > Interface > LINK > Precoding
Syntax	:SOURce:DATA:TELEcom:ETHernet:PRECoding <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Precoding. ON, enables Precoding. OFF, disabled Precoding.
Response Syntax	<status>
Example(s)	SOUR:DATA:TEL:ETH:PREC ON
See Also	SOURce:DATA:TELEcom:ETHernet:RSFec

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELEcom:ETHernet:PRECoding?	
Description	This query returns the status of Precoding for 8X100GE. At *RST condition, this value is set to On. Navigation Path: Setup > Test Configurator > Interface > LINK > Precoding
Syntax	:SOURce:DATA:TELEcom:ETHernet:PRECoding?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Precoding 1, Precoding is enabled. 0, Precoding is disabled.
Example(s)	SOUR:DATA:TEL:ETH:PREC ON SOUR:DATA:TEL:ETH:PREC? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RSFec?

:SOURce:DATA:TELeom:ETHernet:RSFec

Description	This command enables RS-FEC. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface 100GE (4 lanes) > LINK > RS- FEC
Syntax	:SOURce:DATA:TELeom:ETHernet:RSFec <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the RS-FEC. ON, enables RS-FEC. OFF, disabled RS-FEC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EHT:RSF ON SOUR:DATA:TEL:EHT:RSF? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:RSFec

:SOURce:DATA:TELecom:ETHernet:RSFec?	
Description	This query returns the status of RS-FEC. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface 100GE (4 lanes) > LINK > RS- FEC
Syntax	:SOURce:DATA:TELecom:ETHernet:RSFec?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of RS-FEC. 1, RS-FEC is enabled. 0, RS-FEC is disabled.
Example(s)	SOUR:DATA:TEL:EHT:RSF ON SOUR:DATA:TEL:EHT:RSF? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RSFec?

:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel

Description	This command sets the path signal label (C2) for WAN. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel <wsp><Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the path signal label. UNEQuipped: the unequipped path signal label. EQUipped: the equipped non-specific path signal label. M10ETHERNET: the 10 Gbps ethernet (IEEE 802.3) path signal label. TSignal: the test signal, ITU-T 0.181 specific mapping path signal label.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:WIS:PATH:LAB EQU SOUR:DATA:TEL:ETH:WIS:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:ETHernet:WIS:PATH:LABel?	
Description	This query returns the path signal label (C2) for WAN. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SOURce:DATA:TELeom:ETHernet:WIS:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQUIPPED, Unequipped path signal label is selected. EQUIPPED, Equipped non-specific path signal label is selected. M10ETHERNET, 10 Gbps ethernet (IEEE 802.3) path signal label is selected. TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SOUR:DATA:TEL:ETH:WIS:PATH:LAB EQU SOUR:DATA:TEL:ETH:WIS:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELeom:ETHernet:WIS:PATH:LABel?

:SOURce:DATA:TELecom:ETHernet:WIS:TRACe

Description	This command sets the path trace string for the WAN Interface Sublayer (WIS) operation. At *RST condition, ASCII is selected as default type. The type length is device-dependent. Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > J0/J1 trace (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:TRACe <wsp><Trace>, <String>, <Padding Type>
Parameter(s)	Trace: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the trace. J0 J1 String: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Select the string for specific path trace. Padding Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the padding type. SPACE NULL
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:ETH:WIS:TRAC J1, EXFO4GigE,SPACE SOUR:DATA:TEL:ETH:WIS:TRAC? J1 Returns: EXFO4GigE
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq?

:SOURce:DATA:TELecom:ETHernet:WIS:TRACe?	
Description	This query returns the path trace string for the WAN Interface Sublayer (WIS) operation. At *RST condition, ASCii is selected as the default type. The type length is device-dependent. Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > J0/J1 trace (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:TRACe? <wsp><Trace>
Parameter(s)	Trace: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the trace. J0 J1
Response Syntax	<String>
Response(s)	String: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the string for the specific path trace.
Example(s)	SOUR:DATA:TEL:ETH:WIS:TRAC J1, EXFO4GigE,NULL SOUR:DATA:TEL:ETH:WIS:TRAC? J1 Returns: EXFO4GigE
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq

:SOURce:DATA:TELeom:FETHernet:GROup:PNUMber

Description	This command sets the PHY Number associated for a specific port. At *RST condition, this value is set to 1 for the smallest port of the group and increasing by 1 subsequently. Navigation Path: Setup > Test Configurator > Interface > FlexE PHY Number
Syntax	:SOURce:DATA:TELeom:FETHernet:GROup:PNUMber <wsp><PortId>, <PHY Number>
Parameter(s)	PortId: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port number to apply the FlexE PHY Number. P1 or PORT1: Port 1 P2 or PORT2: Port 2 P3 or PORT3: Port 3 P4 or PORT4: Port 4 A1: A1 A2: A2 B1: B1 B2: B2 PHY Number: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the PHY Number for the selected port. Value Range: 1 to 254.
Response Syntax	<String>
Example(s)	SOUR:DATA:TEL:FETH:GRO:PNUM P1, 10 SOUR:DATA:TEL:FETH:GRO:PNUM? P1 Returns: 10
See Also	SOURce:DATA:TELeom:FETHernet:GROup:PNUMber?

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?	
Description	This query returns the PHY Number associated with the specified Port. At *RST condition, this value is set to 1 for the smallest port of the group and increasing by 1 subsequently. Navigation Path: Setup > Test Configurator > Interface > FlexE PHY Number Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - PHY Number
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber? <wsp><Port Id>
Parameter(s)	Port Id: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port number. P1 or PORT1: Port 1 P2 or PORT2: Port 2 P3 or PORT3: Port 3 P4 or PORT4: Port 4 A1: A1 A2: A2 B1: B1 B2: B2
Response Syntax	<PHY Number>
Response(s)	PHY Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the PHY Number associated with the specified port. Value Range: 1 to 254
Example(s)	SOUR:DATA:TEL:FETH:GRO:PNUM P1, 10 SOUR:DATA:TEL:FETH:GRO:PNUM? P1 Returns: 10
See Also	SOURce:DATA:TELecom:FETHernet:GRO:PNUMber

:SOURce:DATA:TELecom:FETHernet:INSTances:STATus?

Description	This query returns the list of Equipped/Unequipped instances. At *RST condition, this value is device dependent.
Syntax	:SOURce:DATA:TELecom:FETHernet:INSTances:STATus?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns list of Instances with its status
Example(s)	SOURce:DATA:TELecom:FETHernet:INSTances:STATus? Returns: "0 Equipped, 1 Unequipped"
See Also	SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:CONFig?

:SOURce:DATA:TELecom:FIber:LINK:DSIGnaling:ENABle	
Description	This command enables/disables Link Degraded Signaling. At *RST condition, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling
Syntax	:SOURce:DATA:TELecom:FIber:LINK:DSIGnaling:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB ON
See Also	SOURce:DATA:TELecom:FIber:LINK:DSIGnaling:THReshold:INTerval

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:ENABLE?

Description	This query returns the Link Degraded Signaling status. At *RST, this value is set to Disabled. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling
Syntax	:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB ON SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:FIBer:PSP	
Description	This command enables the FC Primitive Sequence Protocol (PSP) link. At *RST, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > LINK > PSP (Link Protocol)
Syntax	:SOURce:DATA:TELeom:FIBer:PSP <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PSP ON
See Also	SOURce:DATA:TELeom:FIBer:PORT:LOGIn:STATus

:SOURce:DATA:TELEcom:FIBer:PSP?

Description	This query returns the status of FC Primitive Sequence Protocol (PSP) link. At *RST, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > LINK > PSP (Link Protocol)
Syntax	:SOURce:DATA:TELEcom:FIBer:PSP?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Primitive Sequence Protocol (PSP) link.
Example(s)	SOUR:DATA:TEL:FIB:PSP ON SOUR:DATA:TEL:FIB:PSP? Returns: 1
See Also	SOURce:DATA:TELEcom:FIBer:PORT:LOGin:STATus?

SCPI Command Reference

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:SOURce:DATA:TELeom:FOTN:FEC	
Description	This command enables/disables the FEC for FlexO. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface > FEC
Syntax	:SOURce:DATA:TELeom:FOTN:FEC <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC ON
See Also	SOURce:DATA:TELeom:FOTN:FEC:FCA

:SOURce:DATA:TELecom:FOTN:FEC?

Description	This query returns the status of the FEC for FlexO. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface > FEC
Syntax	:SOURce:DATA:TELecom:FOTN:FEC?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the FEC for FlexO. 1: FEC is enabled. 0: FEC is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC?
See Also	SOURce:DATA:TELecom:FOTN:FEC:FCA?

:SOURce:DATA:TELEcom:FOTN:INSTance:IDentifier	
Description	This command sets the FlexO instance ID associated for a specific port and offset. At *RST condition, this value is set to 1 for the smallest port/offset of the group and increasing by 1 subsequently. Navigation Path: Setup > Test Configurator > Interface > FlexO Instance ID
Syntax	:SOURce:DATA:TELEcom:FOTN:INSTance:IDentifier <wsp><PortId>,<InstanceOffsetOnPort>,<FlexOInstanceId>
Parameter(s)	PortId: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port on which the FlexO instance is transported: P1 or PORT1: Port 1 P2 or PORT2: Port 2 P3 or PORT3: Port 3 P4 or PORT4: Port 4 InstanceOffsetOnPort: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the offset on the port of the FlexO instance: 0 for 100G FlexORs interfaces FlexOInstanceId: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Configures the FlexO instance ID associated with the specified port/offset.: Value Range: 1 to 254.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:INST:ID P1, 0, 22 SOUR:DATA:TEL:FETH:GRO:PNUM? P1, 0 Returns: 22
See Also	SOURce:DATA:TELEcom:FOTN:INSTance:IDentifier?

:SOURce:DATA:TELeom:FOTN:INSTance:IDentifier?

Description	This query returns the FlexO instance ID associated for a specific port and offset. At *RST condition, this value is set to 1 for the smallest port/offset of the group and increasing by 1 subsequently. Navigation Path: Setup > Test Configurator > Interface > FlexO Instance ID
Syntax	:SOURce:DATA:TELeom:FOTN:INSTance:IDentifier? <wsp><PortId>, <InstanceOffsetOnPort>
Parameter(s)	PortId: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port on which the FlexO instance is transported: P1 or PORT1: Port 1 P2 or PORT2: Port 2 P3 or PORT3: Port 3 P4 or PORT4: Port 4 InstanceOffsetOnPort: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the offset on the port of the FlexO instance: 0 for 100GFlexORs interfaces
Response Syntax	<FlexOInstanceId>
Response(s)	FlexOInstanceId: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the FlexO instance ID associated with the specified port/offset. Value Range: 1 to 254
Example(s)	SOUR:DATA:TEL:FOTN:INST:ID P1, 0, 22 SOUR:DATA:TEL:FETH:GRO:PNUM? P1, 0 Returns: 22
See Also	SOURce:DATA:TELeom:FOTN:INSTance:IDentifier

:SOURce:DATA:TELecom:LINK	
Description	This command selects the link used for subsequent commands/queries for test applications using more than one test link. For example, the EtherBERT '2x100GE' test controls and monitors two links. At *RST condition, this value is device-dependent.
Syntax	:SOURce:DATA:TELecom:LINK <wsp><Link number>
Parameter(s)	Link number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. 1: Link #1 2: Link #2
Response Syntax	<FlexOInstanceId>
Example(s)	SOUR:DATA:TEL:LINK 1 SOUR:DATA:TEL:LINK? Returns: 1 SOUR:DATA:TEL:LINK 2 SOUR:DATA:TEL:LINK? Returns: 2

:SOURce:DATA:TELecom:LINK:ENABLE

Description	This command enables/disables the selected link for test applications using more than one test link. For example, the EtherBERT '2x100GE' test controls and monitors two links. At *RST condition, this value is set to ON.
Syntax	:SOURce:DATA:TELecom:LINK:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<FlexOInstanceId>
Example(s)	SOUR:DATA:TEL:LINK 1 SOUR:DATA:TEL:LINK:ENAB ON SOUR:DATA:TEL:LINK:ENAB? Returns: 1 SOUR:DATA:TEL:LINK 2 SOUR:DATA:TEL:LINK:ENAB OFF SOUR:DATA:TEL:LINK:ENAB? Returns: 0
See Also	SOURce:DATA:TEL:LINK SOURce:DATA:TEL:LINK:ENABLE?

:SOURce:DATA:TELecom:LINK:ENABle?	
Description	This query returns the enable/disable status of the selected link for test applications using more than one test link. For example, the EtherBERT '2x100GE' test controls and monitors two links. At *RST condition, this value is ON.
Syntax	:SOURce:DATA:TELecom:LINK:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LINK 1 SOUR:DATA:TEL:LINK:ENAB ON SOUR:DATA:TEL:LINK:ENAB? Returns: 1 SOUR:DATA:TEL:LINK 2 SOUR:DATA:TEL:LINK:ENAB OFF SOUR:DATA:TEL:LINK:ENAB? Returns: 0
See Also	SOURce:DATA:TEL:LINK?

:SOURce:DATA:TELeom:LINK?

Description	This query returns the port used for subsequent commands/queries for test applications using more than one test link. For example, the EtherBERT '2x100GE' test controls and monitors two links. At *RST condition, this value is device-dependent.
Syntax	:SOURce:DATA:TELeom:LINK?
Response Syntax	<Link number>
Response(s)	Link number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. 1: Link #1 2: Link #2
Example(s)	SOUR:DATA:TEL:LINK 1 SOUR:DATA:TEL:LINK? Returns: 1 SOUR:DATA:TEL:LINK 2 SOUR:DATA:TEL:LINK? Returns: 2

Signal (Transport)

:SENSe:DATA:TELeom:CODE	
Description	This command sets the line code for the RX port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > TestConfigurator > Interface DS_n/PDH > Physical Interface > Line Coding
Syntax	:SENSe:DATA:TELeom:CODE <wsp> <Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the external timing line code. B8ZS HDB3 AMI
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:CODE AMI
See Also	OUTPut:TELeom:CODE?

:SENSe:DATA:TELecom:CODE?

Description	This query returns the interface line coding for the RX port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > TestConfigurator > Interface DS_n/PDH > Physical Interface > Line Coding
Syntax	:SENSe:DATA:TELecom:CODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the external timing line code. B8ZS, B8ZS external timing line code is selected. HDB3, HDB3 external timing line code is selected. AMI, AMI external timing line code is selected.
Example(s)	SENS:DATA:TEL:CODE AMI SENS:DATA:TEL:CODE? Returns: AMI
See Also	OUTPut:TELecom:CODE

:SENSe:DATA:TELeom:ELECtrical:PORT:FREQuency:NEGativ e?	
Description	This query returns the RX maximum negative offset for electrical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Max Negative Offset (PPM)
Syntax	:SENSe:DATA:TELeom:ELECtrical:PORT:FREQuency:NEGative?
Response Syntax	<Noffset>
Response(s)	Noffset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the negative frequency of the input signal.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:NEG?
See Also	SENSe:DATA:TELeom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:V
ALue?

Description	This query returns the RX frequency offset value for electrical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Offset (PPM)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frequency offset value for the receiver.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL?
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?	
Description	This query returns the maximum positive RX frequency offset for electrical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Max Positive Offset (PPM)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?
Response Syntax	<Poffset>
Response(s)	Poffset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the positive frequency of the input signal.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:POS?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELeom:ELECtrical:PORT:FREQuency?

Description	This query returns the RX frequency for electrical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Frequency (GHz)
Syntax	:SENSe:DATA:TELeom:ELECtrical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the frequency of the input signal for the receiver.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ?
See Also	SENSe:DATA:TELeom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MAXimum?	
Description	This query returns the value of optical lanes receiver power MAXimum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max Amplitude(Vpp)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MAXimum?
Response Syntax	<Maximum Amplitude>
Response(s)	Maximum Amplitude: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL:MAX?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELeom:ELECtrical:RX:AMPLitude:MINimum?

Description	This query returns the value of optical lanes receiver power Minimum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min Amplitude(Vpp)
Syntax	:SENSe:DATA:TELeom:ELECtrical:RX:AMPLitude:MINimum?
Response Syntax	<Minimum Amplitude>
Response(s)	Minimum Amplitude: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL:MIN?
See Also	SENSe:DATA:TELeom:OPTical:TX:POWer?

:SENSe:DATA:TELeom:ELECtrical:RX:AMPLitude?

Description	This query returns the value of the receiver power. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Amplitude(Vpp)
Syntax	:SENSe:DATA:TELeom:ELECtrical:RX:AMPLitude?
Response Syntax	<Amplitude>
Response(s)	Amplitude: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the receiver Amplitude.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL?
See Also	SENSe:DATA:TELeom:OPTical:TX:POWer?

:SENSe:DATA:TELeom:ELECtrical:RX:POWer:MAXimum?

Description	This query returns the value of optical lanes receiver power MAXimum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max RX Power (dBm)
Syntax	:SENSe:DATA:TELeom:ELECtrical:RX:POWer:MAXimum?
Response Syntax	<Maximum Power>
Response(s)	Maximum Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW:MAX?
See Also	SENSe:DATA:TELeom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MINimum?	
Description	This query returns the value of optical lanes receiver power Minimum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MINimum?
Response Syntax	<Minimum Power>
Response(s)	Minimum Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW:MIN?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:ELECtrical:RX:POWer?

Description	This query returns the value of the receiver power. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:POWer?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:LOFF	
Description	This command enables Laser OFF at Start-UP. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser OFF at Start-Up
Syntax	:SENSe:DATA:TELecom:LOFF <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the state of the Laser at startup. ON: Enabled OFF: Disabled
Response Syntax	<Power>
Example(s)	SENS:DATA:TEL:LOFF ON SENS:DATA:TEL:LOFF? Returns: 1
See Also	SENSe:DATA:TELecom:LOFF SENSe:DATA:TELecom:LOFF? SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SENSe:DATA:TELeom:LOFF?

Description	This query returns the status of Laser OFF at Start-UP. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser OFF at Start-Up
Syntax	:SENSe:DATA:TELeom:LOFF?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the laser Off at Startup. 1, laser is enabled. 0, laser is disabled.
Example(s)	SENS:DATA:TEL:LOFF ON SENS:DATA:TEL:LOFF? Returns: 1
See Also	SENSe:DATA:TELeom:LOFF SENSe:DATA:TELeom:LOFF? SOURce:DATA:TELeom:OPTical:ALARm:PORT:LANE

:SENSe:DATA:TELeom:OPTical:LASer:WAVelength?

Description	This query returns the detected laser wavelength. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Wavelength (nm)
Syntax	:SENSe:DATA:TELeom:OPTical:LASer:WAVelength?
Response Syntax	<Wavelength>
Response(s)	Wavelength: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the detected lane/laser wavelength.
Example(s)	SENS:DATA:TEL:OPT:LAS:WAV?
See Also	SENSe:DATA:TELeom:OPTical:SFP:Wavelength?

:SENSe:DATA:TELecom:OPTical:POWer:RANGe?

Description	This query returns the range between the minimum and maximum power range. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Power Range (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:POWer:RANGe?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Power range>
Response(s)	Power range: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the range between the minimum and maximum power range.
Example(s)	SENS:DATA:TEL:OPT:POW:RANG? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?	
Description	This query returns the value of optical lanes receiver power maximum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number.
Response Syntax	<Maximum Power>
Response(s)	Maximum Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW:MAX? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELeom:OPTical:RX:POWer:MINimum?

Description	This query returns the value of optical lanes receiver power minimum. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min RX Power (dBm)
Syntax	:SENSe:DATA:TELeom:OPTical:RX:POWer:MINimum?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number.
Response Syntax	<Minimum Power>
Response(s)	Minimum Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW:MIN? 1
See Also	SENSe:DATA:TELeom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:RX:POWer?	
Description	This query returns the value of the receiver power. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:RX:POWer?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number.
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW? 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:TX:POWer?

Description	This query returns the value of the transmitter power. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > TX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:TX:POWer?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of the transmitter power.
Example(s)	SENS:DATA:TEL:OPT:TX:POW? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:WAVelength?	
Description	This query returns the detected lane wavelength. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Wavelength (nm)
Syntax	:SENSe:DATA:TELecom:OPTical:WAVelength? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Wavelength>
Response(s)	Wavelength: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the detected lane wavelength.
Example(s)	SENS:DATA:TEL:OPT:WAV? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:TERMination

Description	This command sets the RX Termination. At *RST condition, this value is set to TERM. Navigation Path: Setup > TestConfigurator > Physical Interface (DSn/PDH) > RX Termination
Syntax	:SENSe:DATA:TELecom:TERMination <wsp><TopologyType>
Parameter(s)	TopologyType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the termination BRIDge: Bridge MONitor: Monitor TERMinal: Terminal
Response Syntax	<Wavelength>
Example(s)	SENS:DATA:TEL:TERM TERMINAL

:SENSe:DATA:TELeom:TERMination?	
Description	This query returns the Termination. At *RST condition, this value is set to TERM. Navigation Path: Setup > TestConfigurator > Physical Interface (DSn/PDH) > RX Termination
Syntax	:SENSe:DATA:TELeom:TERMination?
Response Syntax	<Termination>
Response(s)	Termination: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the termination BRID: Bridge MON: Monitor TERM: Terminal
Example(s)	SENS:DATA:TEL:TERM TERMINAL SENS:DATA:TEL:TERM? Returns: TERMINAL

:SOURce:DATA:TELeom:CODE

Description	This command sets the interface line coding for the input port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > TestConfigurator > Interface DS_n/PDH > Physical Interface > Line Coding
Syntax	:SOURce:DATA:TELeom:CODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the external timing line code. AMI B3ZS B8ZS CMI HDB3
Response Syntax	<Termination>
Example(s)	SOUR:DATA:TEL:CODE AMI
See Also	OUTPut:TELeom:CODE?

:SOURce:DATA:TELecom:CODE?	
Description	This query returns the interface line coding for the input port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > DSn/PDH BERT > Test Configurator > Modify Structure > Topology(Decoupled) > Setup > TX > Physical Interface > Line Coding
Syntax	:SOURce:DATA:TELecom:CODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the external timing line code. B8ZS, B8ZS external timing line code is selected. HDB3, HDB3 external timing line code is selected. AMI, AMI external timing line code is selected.
Example(s)	SOUR:DATA:TEL:CODE AMI SOUR:DATA:TEL:CODE? Returns: AMI
See Also	OUTPut:TELecom:CODE

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet

Description	This command enables the TX frequency offset for electrical interfaces/signals. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the frequency offset generation. ON: Enabled OFF: Disabled
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS ON SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS? Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue

Description	This command sets the TX frequency offset value for electrical interfaces/signals. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the offset value between the standard rate specification and the rate of input signal for the transmitter of the optical port. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL? Returns: 15
See Also	SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue? SENSe:DATA:TELEcom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the TX frequency offset value for electrical interfaces/signals. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELEcom:ELECtrical:PORT:FREQuency:OFFSet:VALue?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the offset value between the standard rate specification and the rate of input signal of the optical port. This parameter is optional. If no token is specified, the current frequency offset value is returned. MAXimum: Biggest value MINimum: Smallest value DEFault: Default value
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the offset value between the standard rate specification and the rate of input signal.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL? Returns: 15
See Also	SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?	
Description	This query returns the TX frequency offset for electrical interfaces/signals. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the frequency offset generation status. 1, Frequency offset generation of electrical port is enabled. 0, Frequency offset generation of electrical port is disabled.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS ON SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS? Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency?

Description	This query returns the signal TX frequency for electrical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > TX frequency > Frequency
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the input signal frequency for the electrical port transmitter.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ?
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

SCPI Command Reference

Signal (Transport)

:SOURce:DATA:TELecom:LBO	
Description	This command sets the value for the Line Build Out interface. At *RST condition, this value is set to DSX133. Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > LBO
Syntax	:SOURce:DATA:TELecom:LBO <wsp><Lbo>
Parameter(s)	Lbo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value for the Line Build Out interface. DSX655 DSX533 DSX399 DSX266 DSX133 LBO225TO450 LBO0TO225 LBOCABLESIM900 LBO0 LBONEG7DOT5 LBONEG12 LBONEG15 LBONEG22DOT5
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:LBO DSX266
See Also	INPut:TELecom:LEVel

:SOURce:DATA:TELEcom:LBO?

Description	This query returns the value for the Line Build Out interface. At *RST condition, this value is set to DSX133. Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > LBO
Syntax	:SOURce:DATA:TELEcom:LBO?
Response Syntax	<Clock>
Response(s)	Clock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value for the Line Build Out interface. DSX655, Returns the value as DSX655. DSX533, Returns the value as DSX533. DSX399, Returns the value as DSX399. DSX266, Returns the value as DSX266. DSX133, Returns the value as DSX133. Lbo225To450, Returns the value as Lbo225To450, Lbo0To225, Returns the value as Lbo0To225, LboCableSim900, Returns the value as LboCableSim900, LBO0, Returns the value as LBO0, LBONEG7DOT5, Returns the value as LBONEG7DOT5, LBONEG12, Returns the value as LBONEG12, LBONEG15, Returns the value as LBONEG15, LBONEG22DOT5, Returns the value as LBONEG22DOT5.
Example(s)	SOUR:DATA:TEL:LBO DSX266 SOUR:DATA:TEL:LBO? Returns: DSX266
See Also	INPut:TELEcom:LEVel?

:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]	
Description	This command sets the background traffic for the instrument. At *RST condition, this value is set to PRBS31. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Background Traffic (Mux Type PT20/Mux Type PT21)
Syntax	:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n] <wsp><Traffic>
Parameter(s)	Traffic: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value of the background traffic. AIS NCLient, NULL Client PRBS31 UNALlocated
Response Syntax	<Clock>
Example(s)	SOUR:DATA:TEL:OTN:BTR:PT21 PRBS31 SOUR:DATA:TEL:OTN:BTR:PT21? Returns: PRBS31
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC?

:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]?

Description	This query returns the background traffic for the instrument. At *RST condition, this value is set to PRBS31. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Background Traffic (Mux Type PT20/Mux Type PT21)
Syntax	:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]?
Response Syntax	<Traffic>
Response(s)	Traffic: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of the background traffic. AIS NCLient, NULL Client PRBS31 UNAllocated
Example(s)	SOUR:DATA:TEL:OTN:BTR:PT20 PRBS31 SOUR:DATA:TEL:OTN:BTR:PT20? Returns: PRBS31
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC

:SOURce:DATA:TELecom:OTN:FEC	
Description	This command enables/disables the FEC for the Transmitter (TX) mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > OTU > FEC
Syntax	:SOURce:DATA:TELecom:OTN:FEC <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Traffic>
Example(s)	SOUR:DATA:TEL:OTN:FEC ON SOUR:DATA:TEL:OTN:FEC? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:SCRambler

:SOURce:DATA:TELeom:OTN:FEC:FCA	
Description	This command enables/disables Frame Error Alarming (formerly FEC-CORR Alarming). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > FEC-CORR Alarming
Syntax	:SOURce:DATA:TELeom:OTN:FEC:FCA <wsp><Enable>
Parameter(s)	Enable: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the Forward Error Correction (FEC) correctable alarming. ON, sets the FEC correctable alarming to ON. OFF, sets the FEC correctable alarming to OFF.
Response Syntax	<Traffic>
Example(s)	SOUR:DATA:TEL:OTN:FEC:FCA ON SOUR:DATA:TEL:OTN:FEC:FCA? Returns: 1
See Also	SOURce:DATA:TELeom:OTN:FEC

:SOURce:DATA:TELecom:OTN:FEC:FCA?	
Description	This query returns the enable/disable status of Frame Error Alarming (formerly FEC-CORR Alarming). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > FEC-CORR Alarming
Syntax	:SOURce:DATA:TELecom:OTN:FEC:FCA?
Response Syntax	<FecCorrectableAlarmingStatus>
Response(s)	FecCorrectableAlarmingStatus: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Forward Error Correction (FEC) Correctable Alarming. 1, FEC correctable alarming is enabled. 0, FEC correctable alarming is disabled.
Example(s)	SOUR:DATA:TEL:OTN:FEC:FCA ON SOUR:DATA:TEL:OTN:FEC:FCA? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC

:SOURce:DATA:TELeom:OTN:FEC?

Description	This query returns the enable/disable status of FEC for the Transmitter (TX) mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > OTU > FEC
Syntax	:SOURce:DATA:TELeom:OTN:FEC?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Forward Error Correction (FEC) for the Transmitter (TX) mode. 1, FEC for TX mode is enabled. 0, FEC for TX mode is disabled.
Example(s)	SOUR:DATA:TEL:OTN:FEC ON SOUR:DATA:TEL:OTN:FEC? Returns: 1
See Also	SOURce:DATA:TELeom:OTN:SCRambler?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler	
Description	This command enables/disables the scrambler for overclocked rates OTU3e1/2 of the transmitter. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU3e(1/2) > Scrambler NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SCR ON SOUR:DATA:TEL:OTN:OTU3:E1:SCR? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SCRamblEr?

Description	This query returns the status of scrambler for overclocked rates OTU3e1/2 of the transmitter. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU3e(1/2) > Scrambler NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SCRamblEr?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the scrambler for the transmitter. 1, returns the scrambler as ON. 0, returns the scrambler as OFF.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SCR ON SOUR:DATA:TEL:OTN:OTU3:E1:SCR? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:FEC

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler	
Description	This command enables/disables the scrambler for non-standard rates OTU1/2 f of the receiver. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Scrambler
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SCR ON SOUR:DATA:TEL:OTN:OTU1:F:SCR? Returns: 1
See Also	SENSe:DATA:TELEcom:OTN:OTU[1..n]:E:SCRambler?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler?

Description	This query returns the status of the scrambler for non-standard rates OTU1e/2e of the receiver. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Scrambler
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SCRambler?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the scrambler for the receiver. 0, status of the scrambler for the receiver is disabled. 1, status of the scrambler for the receiver is enabled.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SCR ON SOUR:DATA:TEL:OTN:OTU1:F:SCR? Returns: 1
See Also	SENSe:DATA:TELEcom:OTN:OTU[1..n]:E:SCRambler

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SCRambler	
Description	This command enables/disables the scrambler for the Transmitter (TX) mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU > Scrambler
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SCRambler <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:SCR ON SOUR:DATA:TEL:OTN:OTU1:SCR? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:FEC

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?

Description	This query returns the status of scrambler for the Transmit (TX) mode. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU > Scrambler
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the scrambler for the Transmitter (TX) mode. 1, scrambler for TX mode is enabled. 0, scrambler for TX mode is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SCR ON SOUR:DATA:TEL:OTN:OTU3:SCR? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC?

Frequency

:FETCh:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?	
Description	This Query returns the live TX current frequency offset. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep
Syntax	:FETCh:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?
Response Syntax	<Current Offset>
Response(s)	Current Offset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns live TX current frequency offset.
Example(s)	FETC:DATA:TEL:OPT:PORT:FREQ:OFFS?
See Also	FETCh:DATA:TELecom:SDHSonet:LOP:POINter:OFFSet?

:SENSe:DATA:TELeom:OPTical:PORT:FREQuency:NEGative?

Description	This query returns the maximum negative RX frequency offset for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Max Negative Offset (PPM)
Syntax	:SENSe:DATA:TELeom:OPTical:PORT:FREQuency:NEGative?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Noffset>
Response(s)	Noffset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the negative frequency of the input signal.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:NEG? 0
See Also	SENSe:DATA:TELeom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?	
Description	This query returns the RX frequency offset value for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Offset (PPM)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frequency offset value for the receiver.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELeom:OPTical:PORT:FREQuency:POSitive?

Description	This query returns the maximum positive RX frequency offset for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Max Positive Offset (PPM)
Syntax	:SENSe:DATA:TELeom:OPTical:PORT:FREQuency:POSitive?[<wsp><Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Poffset>
Response(s)	Poffset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the positive frequency of the input signal.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:POS? 0
See Also	SENSe:DATA:TELeom:OPTical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?	
Description	This query returns the RX frequency for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Frequency (GHz)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?[<wsp> <Lane>]
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the frequency of the input signal for the receiver.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ? 0
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

:SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet

Description	This command enables the TX frequency offset for optical interfaces/signals. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface/Frequency > TX Frequency > Offset
Syntax	:SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS ON SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS? Returns: 1
See Also	SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum	
Description	This command sets the maximum TX frequency for Sweep offset. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum <wsp><Offset>
Parameter(s)	Offset: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the maximum TX frequency offset. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX 20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

Description	This query returns the maximum TX frequency for Sweep offset. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?[<wsp><Offset>]
Parameter(s)	Offset: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the maximum TX frequency offset. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the maximum TX frequency offset
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX 20 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX? Returns: 20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METhod	
Description	This command sets the TX frequency offset method. At *RST condition, this value is set to Fixed. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Fixed/Sweep
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METhod <wsp><Method>
Parameter(s)	Method: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of TX frequency offset method. FIXED SWEEP
Response Syntax	<Offset>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH FIXED
See Also	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MEtHod?	
Description	This query returns the TX Frequency Offset Method. At *RST condition, this value is set to Fixed. Navigation Path: Setup > Test Configurator > Interface Block >Frequency - Offset - Fixed/Sweep
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MEtHod?
Response Syntax	<Method>
Response(s)	Method: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the TX frequency offset method selected. FIXED SWEEP
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH FIXED SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH? Returns: FIXED
See Also	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

:SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet:MINimum	
Description	This command sets the minimum TX frequency for Sweep offset. At *RST condition, this value is set to -100. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet:MINimum <wsp><Offset>
Parameter(s)	Offset: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the minimum TX frequency offset. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Method>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN 20
See Also	SOURce:DATA:TELeom:OPTical:PORT:FREQuency:OFFSet:MAXimum

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?

Description	This query returns the minimum TX frequency for Sweep offset. At *RST condition, this value is set to -100. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?[<wsp><Offset>]
Parameter(s)	Offset: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the minimum TX frequency offset. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the minimum TX frequency offset
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN -20 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN? Returns: -20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue	
Description	This command sets the TX frequency offset value for optical interfaces/signals. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface/Frequency > Frequency > Offset (ppm)
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the offset value between the standard rate specification and the rate of input signal. MAXimum: Biggest supported offset value MINimum: Smallest supported offset value
Response Syntax	<Offset>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL? Returns: 15
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue? SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the TX frequency offset for optical interfaces/signals. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface/Frequency > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue?[<wsp><Offset>]
Parameter(s)	Offset: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the offset value between the standard rate specification and the rate of input signal. This parameter is optional. If no token is specified, the current frequency offset value is returned. MAXimum: Biggest offset value MINimum: Smallest offset value
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the offset value between the standard rate specification and the rate of input signal.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL? Returns: 15
See Also	SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet?	
Description	This query returns the TX frequency offset status for optical interfaces/signals. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface/Frequency > TX Frequency > Offset
Syntax	:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the frequency offset generation status.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15 SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS ON SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS? Returns: 1
See Also	SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency?

Description	This query returns the TX frequency for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > TX frequency
Syntax	:SOURce:DATA:TELEcom:OPTical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the frequency of the input signal for the transmitter.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ?
See Also	SENSe:DATA:TELEcom:OPTical:PORT:FREQuency? SOURce:DATA:TELEcom:OPTical:PORT:FREQuency:OFFSet:VALue

Traces (OTN)

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the ODU1e/2e/3e1/3e2 TCM DAPI Expected Message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message NOTE: For :E[1..n]., use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?	
Description	This quere retruns the ODU1e/2e/3e1/3e2 TCM DAPI Expected Message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCMn > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > DAPI - Expected Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted	
Description	This command sets the ODU1e/2e/3e1/3e2 TCM SAPI Expected Message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCMn > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > SAPI - Expected Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?	
Description	This query returns the ODU1e/2e/3e1/3e2 TCM SAPI Expected Message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCMn > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > SAPI - Expected Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM	
Description	This command enables/disables the ODU1e/2e/3e1/3e2 SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUn > TCMn > SAPI/DAPI TCM-TIM NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM) ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU3e1/e2 SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCM > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM? <wsp> <Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the ODU1e/2e/3e1/3e2 PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > DAPI - Expected Message NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP EXFO ODU DAPI SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP? Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

Description	This query returns the ODU1e/2e/3e1/3e2 PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > DAPI - Expected Message NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP EXFO ODU DAPI SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP? Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted	
Description	This command sets the ODU1e/2e/3e1/3e2 PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODU3n > PM TTI Traces > SAPI - Expected Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP? Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODU3n > PM TTI Traces > SAPI - Expected Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI, ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP? Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM	
Description	This command enables/disables the ODU3e1/e2 SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM Navigation Path: Results > Traces > OTN > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM) ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

Description	This query returns the state of the ODU3e1/e2 SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM Navigation Path: Results > Traces > OTN > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the ODU1f/2f TCM DAPI expected message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted?

Description	This query returns the ODU1f/2f TCM DAPI expected message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCM > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected	
Description	This command sets the ODU1f/2f TCM SAPI expected message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted?

Description	This query returns the ODU1f/2f TCM SAPI expected message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCM > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM	
Description	This command enables/disables the ODU1f/2f SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCM > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM <wsp> <Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM) ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU1f/2f SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted	
Description	This command sets the ODU1f/2f PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP EXFO ODU DAPI SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP? Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted?

Description	This query returns the ODU1f/2f PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > PM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP EXFO ODU DAPI SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP? Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted	
Description	This command sets the ODU1f/2f PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > PM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP? Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted?

Description	This query returns the ODU1f/2f PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP? Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted

SCPI Command Reference

Traces (OTN)

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM	
Description	This command enables/disables the ODU1f/2f SAPI/DAPI PM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODU1 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM <wsp> <TIM>, <Set>
Parameter(s)	TIM: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables ODU-TIM for either: SAPI DAPI Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the Trace Identifier Mismatch (TIM) ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM?

Description	This query returns the enable/disable status of the ODU1f/2f SAPI/DAPI PM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUUn > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM? <wsp><TIM>
Parameter(s)	TIM: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the TIM (Trace Identifier Mismatch). SAPI DAPI
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). ON: enabled. OFF: disabled.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EX Pected	
Description	This command sets the ODU TCM DAPI expected message. At *RST condition, this value is set to EXFO TCM DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EX Pected <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EX Pected SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EX Pected?

**:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EX
Pected?**

Description	This query returns the ODU TCM DAPI expected message. At *RST condition, this value is set to EXFO TCM DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > TCMn > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > ODUUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP? Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EX Pected	
Description	This command sets the ODU_n TCM SAPI expected message. At *RST condition, this value is set to EXFO TCM SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > TCM_n > SAPI - Expected Message Navigation Path: Results > Traces > OTUn > ODU_n > OTUn TCM TTI Traces > TCM_n > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EX Pected <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EX Pected SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EX Pected?

**:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EX
Pected?**

Description	This query returns the ODUn TCM SAPI expected message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI - Expected Message Navigation Path: Results > Traces > OTUn > ODUn > OTUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXpected?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP? Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXpected SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXpected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM	
Description	This command enables/disables the ODU SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODU > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM <wsp> <Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch) for ODU TCM TTI. SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODU > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the expected message. SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). 1, enables the status of TIM. 0, disables the status of TIM.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHannel	
Description	This command forces the ODU TTI Traces commands/queries to be applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHannel <wsp><AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects if the ODU TTI Traces commands/queries are applied on all channels (ON) or a single channel (OFF).
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHannel?

Description	This query returns if the ODU TTI Traces commands/queries are applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHannel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the ODU TTI Traces commands/queries are to be applied on all channels. 1, ODU TTI Trace commands/queries are applied on all channels. 0, ODU TTI Trace commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:ODU[1..n]:TTI:CHAN.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel

Description	This command sets the value of the channel used by the ODU TTI Traces for Multi-Channel OTN test. At *RST condition, this value is set to 1. When setting a channel value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHannel Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel <wsp><Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel used for ODU TTI Traces, when AllChannel is not selected, in the Multi-Channel OTN test application.
Response Syntax	<AllChannel>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 3 SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3 SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN? SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?	
Description	This query returns the value of the channel used by the ODU TTI Traces for Multi-Channel OTN test. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?
Response Syntax	<Channel>
Response(s)	Channel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel used for the ODU TTI Trace, when AllCHAnnel is 'OFF', in the Multi-Channel OTN test application.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 3 SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3 SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the ODU_n PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODU_n > PM TTI Traces > DAPI - Expected Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected DAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHannel. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The global expected DAPI can also be set for all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Is the expected message for ODU TTI Trace

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted

**Response
Syntax**

<Channel>

Example(s)

SENSe:DATA:TELecom:OTN:ODU3:TTI:TIM DAPI,ON
 SENSe:DATA:TELecom:OTN:ODU3:TTI:DAPI:EXP EXFO ODU DAPI
 SENSe:DATA:TELecom:OTN:ODU3:TTI:DAPI:EXP?
 Returns: EXFO ODU DAPI
 For Multi-Channel OTN:
 SENSe:DATA:TELecom:OTN:ODU100:TTI:ACHA ON
 SENSe:DATA:TELecom:OTN:ODU100:TTI:TIM DAPI,ON
 SENSe:DATA:TELecom:OTN:ODU100:TTI:DAPI:EXP "XFO ODU DAPI"
 SENSe:DATA:TELecom:OTN:ODU100:TTI:DAPI:EXP?
 Returns: XFO ODU DAPI
 For FlexO BERT:
 SENSe:DATA:TELecom:OTN:ODU101:TTI:ACL ON
 SENSe:DATA:TELecom:OTN:ODU101:TTI:TIM DAPI,ON
 SENSe:DATA:TELecom:OTN:ODU101:TTI:DAPI:EXP "XFO ODU DAPI"
 SENSe:DATA:TELecom:OTN:ODU101:TTI:DAPI:EXP?
 Returns: XFO ODU DAPI

See Also

SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted
 SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?
 For Multi-Channel OTN
 SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel
 SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?
 SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel
 SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?
 For FlexO BERT:
 SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient
 SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient?
 SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient
 SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?	
Description	This query returns the ODU_n PM DAPI expected message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > ODU_n > PM TTI Traces > DAPI - Expected Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected DAPI can also be set for all channels by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHANnel. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The global expected DAPI can also be set for all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?

Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP EXFO ODU DAPI SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP? Returns: EXFO ODU DAPI For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON SENS:DATA:TEL:OTN:ODU100:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP "XFO ODU DAPI" SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP? Returns: XFO ODU DAPI For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:ACL ON SENS:DATA:TEL:OTN:ODU101:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP "XFO ODU DAPI" SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP? Returns: XFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted? For Multi-Channel OTN SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel? For FlexO BERT: SENSe:DATA:TELecom:OTN:ODU[1..n]:CLlent SENSe:DATA:TELecom:OTN:ODU[1..n]:CLlent? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?	
Description	This query returns if an expected DAPI ODU TTI Traces has been overwritten on at least one channel for Multi-Channel OTN test. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > DAPI - Expected Message - Overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. 1: At least one expected DAPI ODU TTI Trace has been overwritten. 0: All expected DAPI ODU TTI Traces are the same as the Global expected ODU TTI Trace.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:GOVE?
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted

Description	This command sets the ODU_n PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODU_n > PM TTI Traces > SAPI - Expected Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected SAPI can also be set for all channels by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHANnel. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The global expected SAPI can also be set for all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted

Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP? Returns: EXFO ODU SAPI For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP "XFO ODU SAPI" SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:ACL ON SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP "XFO ODU SAPI" SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted? For Multi-Channel OTN SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel? For FlexO BERT: SENSe:DATA:TELecom:OTN:ODU[1..n]:CLlent SENSe:DATA:TELecom:OTN:ODU[1..n]:CLlent? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

Description	This query returns the ODU PM SAPI expected message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > ODUUn > PM TTI Traces > SAPI - Expected Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected SAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHannel. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The global expected SAPI can also be set for all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP EXFO ODU SAPI SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP? Returns: EXFO ODU SAPI For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted? SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?

Description	This query returns if an expected SAPI ODU TTI Traces has been overwritten on at least one channel for Multi-Channel OTN test. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > SAPI - Expected Message - Overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. 1: At least one expected SAPI ODU TTI Trace has been overwritten. 0: All expected SAPI ODU TTI Traces are the same as the Global expected ODU TTI Trace.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:GOVE?
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM	
Description	This command enables/disables the ODU SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM <wsp> <Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

Description	This query returns the state of the ODU SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM? <wsp> <Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). 0, status of the Trace Identifier Mismatch (TIM) is disabled 1, status of the Trace Identifier Mismatch (TIM) is enabled
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELeom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the OTU3e2/e2 SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELeom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELeom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?

Description	This query returns the OTU3e2/e2 SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted	
Description	This command sets the OTU1e/2e/3e1/3e2 PM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > OTUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Expected Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?	
Description	This command sets the ODU1e/2e/3e1/3e2 SM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > OTUn > PM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Expected Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:TIM	
Description	This command enables/disables the OTU1e/2e / OTU3e1/e2 SM SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated. DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

Description	This query returns the status of the OTU1e/2e / OTU3e1/e2 SM SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated. DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Trace Identifier Mismatch (TIM). 0, status of the Trace Identifier Mismatch (TIM) is disabled 1, status of the Trace Identifier Mismatch (TIM) is enabled
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted	
Description	This command sets the OTU1f/2f SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXP?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted?

Description	This query returns the OTU1f/2f SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXP

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted	
Description	This command sets the OTU1f/2f SM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted?

Description	This query returns the OTU1f/2f SM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Expected Message Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM	
Description	This command enables/disables the OTU1f/2f SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM <wsp> <Etim> , <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated. DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM? SAPI Returns: 0
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM?

Description	This query returns the status of the OTU1f/2f SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated. DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Trace Identifier Mismatch (TIM). 0, status of the Trace Identifier Mismatch (TIM) is disabled. 1, status of the Trace Identifier Mismatch (TIM) is enabled.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted	
Description	This command sets the OTU SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Expected Message Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Expected Message
Syntax	:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?

Description	This query returns the OTU SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the OTU.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted	
Description	This command sets the OTU SM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Expected Message Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:OTU[1..n][1..n]:TTI:SAPI:EXPeCted?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?

Description	This query returns the OTU SM SAPI expected message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Expected Message Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPeCted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for the OTU.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP EXFO OTU SAPI SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP? Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPeCted?

:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM	
Description	This command enables/disables the OTU SM SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELEcom:OTN:OTU[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM). ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM SENSe:DATA:TELEcom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

Description	This query returns the state the OTU SM SAPI/DAPI Trace Identifier Mismatch (TIM). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	Etim: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM). SAPI, indicates the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI, indicates the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:OTU3:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

SCPI Command Reference

Traces (OTN)

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B	
Description	This command sets the ODU1e/2e/3e1/3e2 PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B	
Description	This command sets the ODU1e/2e/3e1/3e2 PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

SCPI Command Reference

Traces (OTN)

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B	
Description	This command sets the ODU1e/2e/3e1/3e2 PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B	
Description	This command sets the ODU3e1/e2 TCM DAPI generated message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16 EXFO OTU DAPI SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16?

**:SOURce:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DA
PI:B?**

Description	This query returns the ODU3e1/e2 TCM DAPI generated message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16 EXFO OTU DAPI SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELeom:OTN:OTU[1..n]:SM:DAPI:B16

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B	
Description	This command sets the ODU1e/2e/3e1/3e2 TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32 EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OPSPec:B32?

**:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OP
SPec:B?**

Description	This query returns the ODU1e/2e/3e1/3e2 TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32 EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B32

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SA PI:B	
Description	This command sets the ODU3e1/e2 TCM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16 EXFO OTU SAPI SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?

Description	This query returns the ODU3e1/e2 TCM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16 EXFO OTU SAPI SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled	
Description	This command enables/disables ODU3e1/e2 PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e(1/2) > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABLEd?

Description	This query returns the status of ODU3e1/e2 PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e(1/2) > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd

SCPI Command Reference

Traces (OTN)

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:DAPI:B	
Description	This command sets the ODU1f/2f PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B?

Description	This query returns the ODU1f/2f PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B	
Description	This command sets the ODU1f/2f PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B?

Description	This query returns the ODU1f/2f PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B	
Description	This command sets the ODU1f/2f PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B?

Description	This query returns the ODU1f/2f PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

SCPI Command Reference

Traces (OTN)

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B	
Description	This command sets the ODU1f/2f TCM DAPI generated message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?

Description	This query returns the ODU1f/2f TCM DAPI generated message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B	
Description	This command sets the ODU1f/2f TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?

Description	This query returns the ODU1f/2f TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OPSPec:B

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B	
Description	This command sets the ODU1f/2f TCM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?

Description	This query returns the ODU1f/2f TCM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled	
Description	This command enables/disables ODU1f/2f PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled?

Description	This query returns the status of ODU1f/2f PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B	
Description	This command sets the ODU_n PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > DAPI - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU₀, ODU101 for ODU_{flex}, ODU200 for ODU_C, ODU300 for ODU_{Cn}.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

Description	This query returns the ODUn PM DAPI generated message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B EXFO ODU DAPI SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B? Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B	
Description	This command sets the ODU_n PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > Operator Specific - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU₀, ODU101 for ODU_{flex}, ODU200 for ODU_C, ODU300 for ODU_{Cn}.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?

Description	This query returns the ODU PM Operator Specific. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > Operator Specific - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B? Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B	
Description	This command sets the ODU_n PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > PM TTI Traces > SAPI - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU₀, ODU101 for ODU_{flex}, ODU200 for ODU_C, ODU300 for ODU_{Cn}.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

Description	This query returns the ODU PM SAPI generated message. At *RST condition, this value is set to EXFO ODU SAPI. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUUn > PM TTI Traces > SAPI - Generated Message NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B EXFO ODU SAPI SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B? Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B	
Description	This command sets the ODU TCM DAPI generated message. At *RST condition, this value is set to EXFO TCM DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B EXFO1 SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B? Returns: EXFO1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

Description	This query returns the ODU TCM DAPI generated message. At *RST condition, this value is set to EXFO TCM DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B EXFO1 SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B? Returns: EXFO1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B	
Description	This command sets the ODU_n TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCM_n OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODU_n > ODU_n TCM TTI Traces > TCM_n > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B?	
Description	This query returns the ODU1f/2f TCM Operator Specific Generated Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B	
Description	This command sets the ODU TCM SAPI generated message. At *RST condition, this value is set to EXFO TCM SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B EXFO SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B? Returns: EXFO
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

Description	This query returns the ODU TCM SAPI generated message. At *RST condition, this value is set to EXFO TCM SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B EXFO SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B? Returns: EXFO
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled	
Description	This command enables/disables ODU PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

Description	This query returns the status of ODU PM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Test > Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B	
Description	This command sets the OTU1e/2e/3e1/3e2 SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

Description	This query returns the OTU1e/2e/3e1/3e2 SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B	
Description	This command sets the OTU1e/2e / OTU3e1/e2 SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Operator Specific NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?	
Description	This query returns the OTU1e/2e / OTU3e1/e2 SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Operator Specific NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled	
Description	This command enables/disables OTU1e/2e / OTU3e1/e2 SM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Overwrite NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABLEd?

Description	This query returns the status of OTU1e/2e / OTU3e1/e2 SM Overwrite At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Overwrite NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:TTI:OVERwrite:ENABLEd

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B	
Description	This command sets the OTU1e/2e / OTU3e1/e2 SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI Generated Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

Description	This query returns the OTU1e/2e / OTU3e1/e2 SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI Generated Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

SCPI Command Reference

Traces (OTN)

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:DAPI:B	
Description	This command sets the OTU1f/2f SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:DAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?

Description	This query returns the OTU1f/2f SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:OPSPec:B	
Description	This command sets the OTU1f/2f SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:OPSPec:B <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSPec:B EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSPec:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?

Description	This query returns the OTU1f/2f SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSP:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled	
Description	This command enables/disables OTU1f/2f SM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Test > Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled?

Description	This query returns the status of OTU1f/2f SM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Test > Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABLEd

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B	
Description	This command sets the OTU1f/2f SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:SAPI:B?

Description	This query returns the OTU1f/2f SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:F:SM:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]	
Description	This command sets the OTU SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n] <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16 EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16 SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

Description	This query returns the OTU SM DAPI Generated Message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16 EXFO OTU DAPI SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16? Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16 SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]	
Description	This command sets the OTU SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n] <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32 EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16 SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?	
Description	This query returns the OTU SM Operator Specific generated message. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32 EXFO OTU OPERATOR SPECIFIC SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16 SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled	
Description	This command enables/disables OTU SM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

Description	This query returns the status of OTU SM Overwrite. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB ON SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n]	
Description	This command sets the OTU SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Generated Message
Syntax	:SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:SAPI:B[1..n] <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16 EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:DAPI:B16 SOURce:DATA:TELEcom:OTN:OTU[1..n]:SM:DAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?

Description	This query returns the OTU SM SAPI generated message. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16 EXFO OTU SAPI SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16? Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16 SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16?

FTFL/PT

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODE	
Description	This command sets the corresponding expected payload type as hexadecimal code for OTU1e/2e rate. At *RST condition, this value is set to 03. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODE <wsp> <Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding expected payload type as hexadecimal code.
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:E:PCOD? Returns: 00 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODE?

Description	This query returns the corresponding expected payload type as hexadecimal code for OTU1e/2e rate. At *RST condition, this value is set to #HFE. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding expected payload type code.
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:E:PCOD? Returns: 00 (the decimal form of H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM	
Description	This command enables/disables the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1e/2e rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis. ON, enables the PLM alarm. OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PLM ON SENS:DATA:TEL:OTN:OPU1:E:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?

Description	This query returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1e/2e rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis. 1, PLM alarm analysis is enabled. 0, PLM alarm analysis is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PLM ON SENS:DATA:TEL:OTN:OPU1:E:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE	
Description	This command sets the expected payload signal type to be generated for OTU1e/2e rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE <wsp><Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE

Parameter(s)	Payload: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the expected payload signal type to be generated. ASYNchronous: Asynchronous CBR mapping ATM: Asynchronous Transfer Mode BISYNch: Bit Synchronous BSNTiming: Bit Stream No Timing BSTiming: Bit Stream Timing EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC200ODU1: FC-200 into ODU0 FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex GFP1: Generic Framing Procedure GFPEOPU2: GFP mapping into extended OPU2 IBDRMAPPING: IB DDR mapping into ODUflex IBQDRMAPPING: IB QDR mapping into ODUflex IBSDRMAPPING: IB SDR mapping into ODUflex NAVailable: Not Available NULLtest: NULL Test Signal mapping OC12STM4ODU0: OC-12/STM-4 into ODU0 OC3STM1ODU0: OC-3/STM-1 into ODU0 ODUODTUIJK: ODU Multiplex with ODTUk.ts/ODTUjk ODUODTUKTSODTUIJK: ODU Multiplex with ODTUjk PCSCODEWORD: PCS Codeword transparent Ethernet PRBStest: PRBS Test Signal mapping RFStandard: Reserved for International Standardization RPRopriet: Reserved Codes for Proprietary VCONcate: Virtual Concatenation
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:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe	
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PTYP EXP SENS:DATA:TEL:OTN:OPU1:E:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?

Description	This query returns the expected payload signal type to be generated for OTU1e/2e rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?
Response Syntax	<Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?	
Response(s)	Payload: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the injected payload signal type to be generated. RFStandard, Reserved for International Standardization is selected. EXPerimental, Experimental mapping is selected. ASYNchronous, Asynchronous CBR mapping is selected. BISYNch, Bit Synchronous CBR mapping as the payload type is selected. ATM, ATM mapping is selected. GFP1, GFP mapping is selected. VCONcate, Virtual Concatenation is selected. PCSCTE, PCS Codeword Transparent Ethernet is selected. FC1200ODU2E,FC-1200 into ODU2e is selected. GFPEOPU2, GFP mapping into extended OPU2 is selected. OC3STM1ODU0, OC-3/STM-1 into ODU0 is selected. OC12STM4ODU0, OC-12/STM-4 into ODU0 is selected. FC100ODU0, FC-100 into ODU0 is selected. FC200ODU1, FC-200 into ODU0 is selected. FC400, FC-400 into ODUflex is selected. FC800, FC-800 into ODUflex is selected. BSTiming, Bit Stream with Octet Timing mapping is selected. BSNTiming,Bit Stream Without Octet Timing mapping is selected. IBDRMAPPING,IB DDR mapping into ODUflex is selected. IBSDRMAPPING, IB SDR mapping into ODUflex is selected. IBQDRMAPPINGIB QDR mapping into ODUflex is selected. ODUODTUKTSODTUJK, ODU Multiplex with ODTUjk is selected. ODUODTUJK, ODU Multiplex with ODTUk.ts/ODTUjk as the payload type is selected. NAVailable, Not Available is selected. RPRopriet, Reserved Codes for Proprietary is selected. NULLtest, NULL Test Signal mapping is selected. PRBStest, PRBS Test Signal mapping is selected.

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:E:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODE	
Description	This command sets the corresponding expected payload type as hexadecimal code for OTU1f/2f rate. At *RST condition, this value is set to 03. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding expected payload type as hexadecimal code.
Response Syntax	<Payload>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:F:PCOD? Returns: 00 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELeom:OTN:OPU[1..n]:F:PCODE?

Description	This query returns the corresponding expected payload type as hexadecimal code for OTU1f/2f rate. At *RST condition, this value is set to #HFE. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SENSe:DATA:TELeom:OTN:OPU[1..n]:F:PCODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding expected payload type as decimal code. The values are from 0 to 255.
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:F:PCOD? Returns: 00 (the decimal form of H00)
See Also	SOURce:DATA:TELeom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELeom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM	
Description	This command enables/disables the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis. ON, enables the PLM alarm. OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PLM ON SENS:DATA:TEL:OTN:OPU1:F:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?

Description	This query returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis. 1, PLM alarm analysis is enabled. 0, PLM alarm analysis is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PLM ON SENS:DATA:TEL:OTN:OPU1:F:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE	
Description	This command sets the expected payload signal type to be generated for OTU1f/2f rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE <wsp><Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE**Parameter(s)****Payload:**

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

RFStandard: Reserved for international standardization

EXPerimental: Experimental mapping

ASYNchronous: Asynchronous CBR mapping

BISYNch: Bit synchronous CBR mapping

ATM: ATM mapping

GFP1: GFP Mapping

VCONcate: Virtual Concatenated signal

PCSCODEWORD: PCS Codeword transparent Ethernet

FC1200ODU2E: FC-1200 into ODU2e

GFPEOPU2: GFP mapping into extended OPU2

OC3STM1ODU0: OC3/STM-1 into ODU0

OC12STM4ODU0: OC12/STM-4 into ODU0

FC100ODU0: FC-100 into ODU0

FC200ODU1: FC-200 into ODU1

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

BSTiming: Bit stream with octet timing mapping

BSNTiming: Bit stream without octet timing mapping

IBDRMAPPING: IB DDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

ODUODTUJK: ODU multiplex with ODTUjk

ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk

NAVailable: Not available

RPRopriet: Reserved codes for proprietary use

NULLtest: NULL test signal mapping

PRBStest: PRBS test signal mapping

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe	
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PTYP EXP SENS:DATA:TEL:OTN:OPU1:F:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELeom:OTN:OPU[1..n]:F:PTYPE?

Description	This query returns the expected payload signal type to be generated for OTU1f/2f rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SENSe:DATA:TELeom:OTN:OPU[1..n]:F:PTYPE?
Response Syntax	<Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE?	
Response(s)	Payload: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the injected payload signal type to be generated. RFSTANDARD, indicates Reserved for international standardization EXPERIMENTAL, indicates Experimental mapping ASYNCHRONOUS, indicates Asynchronous CBR mapping BISYNCH, indicates Bit synchronous CBR mapping ATM, indicates ATM mapping GFP1, indicates GFP Mapping VCONCATE, indicates Virtual Concatenated signal PCSCODEWORD, indicates PCS Codeword transparent Ethernet FC1200ODU2E, indicates FC-1200 into ODU2e GFPEOPU2, indicates GFP mapping into extended OPU2 OC3STM1ODU0, indicates OC3/STM-1 into ODU0 OC12STM4ODU0, indicates OC12/STM-4 into ODU0 FC100ODU0, indicates FC-100 into ODU0 FC200ODU1, indicates FC-200 into ODU1 FC400, indicates FC-400 into ODUflex FC800, indicates FC-800 into ODUflex BSTIMING, indicates Bit stream with octet timing mapping BSNTIMING, indicates Bit stream without octet timing mapping IBDRMAPPING, indicates IB DDR mapping into ODUflex IBSDRMAPPING, indicates IB SDR mapping into ODUflex IBQDRMAPPING, indicates IB QDR mapping into ODUflex ODUODTUJK, indicates ODU multiplex with ODTUjk ODUODTUKTSODTUJK, indicates ODU multiplex with ODTUk.ts/ODTUjk NAVAILABLE, indicates Not available RPROPRIET, indicates Reserved codes for proprietary use NULLTEST, indicates NULL test signal mapping PRBSTEST, indicates PRBS test signal mapping

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:F:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?	
Description	This query returns if an expected Payload Type has been overwritten on at least one channel for Multi-Channel OTN test. At *RST condition, this value is set to OFF. Navigation Path: Test > Test Configurator > OTU > PT > ODU > PT - Expected overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. 1: At least one expected Payload Type has been overwritten. 0: All expected Payload Types are the same as the Global expected Payload Type.
Example(s)	SENS:DATA:TEL:OTN:OPU100:GOVE?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE

Description	This command sets the expected Payload Type as hexadecimal code. At *RST condition, this value is set to PRBS_{test}. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Code Navigation Path: Results > FTFL/PT > ODU > PT - Expected Code In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]CHANnel. The expected Payload Type can also be set for all channels by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHannel. In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]:CLient The expected Payload Type can also be set for all clients by using SENSE:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding expected Payload Type as hexadecimal code.

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCoDe	
Response Syntax	<Set>
Example(s)	OTN BERT: SENS:DATA:TEL:OTN:OPU1:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:PCOD? Returns: 0 (the decimal form of #H00) For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:PCOD #H00 SENS:DATA:TEL:OTN:OPU100:PCOD? Returns: 0 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCoDe SOURce:DATA:TELecom:OTN:OPU[1..n]:PCoDe? SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

Description	This query returns the expected Payload Type as hexadecimal code. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Code Navigation Path: Results > FTFL/PT > ODU > PT- ExpectedCode In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]CHANnel. The global expected Payload Code can also be retrieved by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHannel. In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]:CLient The global expected Payload Code can also be retrieved by using SENSE:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?
Response Syntax	<Code>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?	
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding expected Payload Type as decimal code. The values are from 0 to 255.
Example(s)	OTN BERT: SENS:DATA:TEL:OTN:OPU1:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:PCOD? Returns: 0 (the decimal form of #H00) For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:PCOD #H00 SENS:DATA:TEL:OTN:OPU100:PCOD? Returns: 0 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE? SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM

Description	This command enables/disables the state of Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for the instrument. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - OPU-PLM Navigation Path: Results > FTFL/PT > ODU > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis. ON, enables the PLM alarm. OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	OTN BERT: SENS:DATA:TEL:OTN:OPU1:PLM ON SENS:DATA:TEL:OTN:OPU1:PLM? Returns: 1 For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:PLM ON SENS:DATA:TEL:OTN:OPU100:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE? SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?	
Description	This query returns the state of Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for the instrument. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - OPU-PLM Navigation Path: Results > FTFL/PT > ODU > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis. 1, PLM alarm analysis is enabled. 0, PLM alarm analysis is disabled.
Example(s)	OTN BERT: SENS:DATA:TEL:OTN:OPU1:PLM ON SENS:DATA:TEL:OTN:OPU1:PLM? Returns: 1 For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:PLM ON SENS:DATA:TEL:OTN:OPU100:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE? SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPE

Description	This command sets the expected Payload Type. At *RST condition, this value is set to PRBS test. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Payload Type Navigation Path: Results > FTFL/PT > ODU > PT - Expected Payload Type In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]CHANnel. The expected Payload Type can also be set for all channels by using SENSE:DATA:TEL:OTN:OPU[1..n]:ACHannel. In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]:CLient The expected Payload Type can also be set for all clients by using SENSE:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPE <wsp> <Payload Type>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe	
Parameter(s)	Payload Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the expected Payload Type. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYNch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	IBDRMAPPING: IB DDR mapping into ODUflex
	IBQDRMAPPING: IB QDR mapping into ODUflex
	IBSDRMAPPING: IB SDR mapping into ODUflex
	NAVailable: Not available
	NULLtest: NULL test signal mapping
	OC12STM4ODU0: OC12/STM-4 into ODU0
	OC3STM1ODU0: OC3/STM-1 into ODU0
	ODUODTUCNTS: ODU multiplex with ODTUCn.ts
	ODUODTUJK: ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
	PCSCODEWORD: PCS Codeword transparent Ethernet
	PRBStest: PRBS test signal mapping
	RFSTandard: Reserved for international standardization
	RPRopriet: Reserved codes for proprietary use
	SBCONESCONOPU0: SBCON/ESCON mapping into OPU0
	SDIMAPPING: SDI mapping into OPU0
	VCONcate: Virtual Concatenated signal

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe	
Response Syntax	<Set>
Example(s)	OTN BERT: SENS:DATA:TEL:OTN:OPU1:PTYP EXP SENS:DATA:TEL:OTN:OPU1:PTYP? Returns: EXPERIMENTAL For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:PTYP EXP SENS:DATA:TEL:OTN:OPU100:PTYP? Returns: EXPERIMENTAL For FlexO BERT: SENS:DATA:TEL:OTN:OPU101:ACL ON SENS:DATA:TEL:OTN:OPU101:PTYP EXP SENS:DATA:TEL:OTN:OPU101:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE? For Multi-Channel OTN SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel? For FlexO BERT: SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Description	This query returns the expected Payload Type. At *RST condition, this value is set to PRBSTest. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Payload Type Navigation Path: Results > FTFL/PT > ODU > PT - Expected Payload Type In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]CHANnel. The global expected Payload Type can also be retrieved by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHannel. In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient. The global expected Payload Type can also be retrieved by using SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient.
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
Response Syntax	<Payload Type>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPE?

Response(s)	Payload Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected Payload Type. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYNch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2
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:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Response(s)

IBDRMAPPING: IB DDR mapping into ODUflex
IBQDRMAPPING: IB QDR mapping into ODUflex
IBSDRMAPPING: IB SDR mapping into ODUflex
NAVailable: Not available
NULLtest: NULL test signal mapping
OC12STM4ODU0: OC12/STM-4 into ODU0
OC3STM1ODU0: OC3/STM-1 into ODU0
ODUODTUCNTS: ODU multiplex with ODTUCn.ts
ODUODTUJK: ODU multiplex with ODTUjk
ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
PCSCODEWORD: PCS Codeword transparent Ethernet
PRBS test: PRBS test signal mapping
RFSTandard: Reserved for international standardization
RPRopriet: Reserved codes for proprietary use
SBCONESCONOPU0: SBCON/ESCON mapping into OPU0
SDIMAPPING: SDI mapping into OPU0
VCONcate: Virtual Concatenated signal

Example(s)

OTN BERT:
SENS:DATA:TEL:OTN:OPU1:PTYP EXP
SENS:DATA:TEL:OTN:OPU1:PTYP?
Returns: EXPERIMENTAL
For Multi-Channel OTN:
SENS:DATA:TEL:OTN:OPU100:ACHA ON
SENS:DATA:TEL:OTN:OPU100:PTYP EXP
SENS:DATA:TEL:OTN:OPU100:PTYP?
Returns: EXPERIMENTAL
For FlexO BERT:
SENS:DATA:TEL:OTN:OPU101:ACL ON
SENS:DATA:TEL:OTN:OPU101PTYP EXP
SENS:DATA:TEL:OTN:OPU101:PTYP?
Returns: EXPERIMENTAL

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?
	For Multi-Channel OTN:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLientl
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLientl?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE

Description	This command sets the FTFL Fault Indication code to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE <wsp><Fttl>, <Code>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Code: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the FTFL Fault Indication Code to be generated.
Response Syntax	<Payload Type>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?	
Description	This query returns the FTFL Fault Indication code to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig.
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of the Fault Type Fault Location (FTFL) fault indication code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENTifier

Description	This command sets the FTFL Operator Identifier to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENTifier <wsp><Ftfl>, <Identifier>
Parameter(s)	Ftfl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Identifier: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator identifier to be generated.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENTifier?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENTifier?	
Description	This query returns the FTFL Operator Identifier to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENTifier? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKWard, sets the Backward CONFIg.
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:IDENTifier

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication

Description	This command sets the FTFL Fault Indication message to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / OTU3e1/E2 > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication <wsp><Fttl>, <Indication>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Indication: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the FTFL Fault Indication message to be generated. NFAult: No Fault RESERVED: Reserved SFAil: Signal Fail SDEgraDe: Signal Degraded
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?	
Description	This query returns the FTFL Fault Indication message to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / OTU3e1/E2 > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKWard, sets the Backward CONFIg.
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FTFL Fault Indication message to be generated. NFAULT, No Fault (NFAULT) is selected as FTFL Fault Indication message. SFAIL, Signal Fail (SFAIL) is selected as FTFL Fault Indication message. SDEGRADE, Signal Degraded (SDEGRADE) is selected as FTFL Fault Indication message. RESERVED, Reserved is selected as FTFL Fault Indication message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:INDication

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec	
Description	This command sets the FTFL Operator Specific to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec <wsp><Fttl>, <Specific>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Specific: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator specific to be generated.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec?	
Description	This query returns the FTFL Operator Specific to be generated for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig.
Response Syntax	<Specific>
Response(s)	Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABLEd

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/e2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABLEd <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABLEd?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?	
Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature for OTU1e/2e / OTU3e1/E2 rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/e2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELeom:OTN:ODU[1..n]:F:FTFL:CODE

Description	This command sets the FTFL Fault Indication code to be generated for OTU1f/2f rate. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Code
Syntax	:SOURce:DATA:TELeom:OTN:ODU[1..n]:F:FTFL:CODE <wsp><Fttl>, <Code>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Code: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the FTFL Fault Indication Code to be generated.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW Returns: 1
See Also	SOURce:DATA:TELeom:OTN:ODU[1..n]:F:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?	
Description	This query returns the FTFL Fault Indication code to be generated for OTU1f/2f rate. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	Ftfl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of the Fault Type Fault Location (FTFL) fault indication code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier

Description	This command sets the FTFL Operator Identifier to be generated for OTU1f/2f rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier <wsp><Fttl>, <Identifier>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Identifier: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator identifier to be generated.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?	
Description	This query returns the FTFL Operator Identifier to be generated for OTU1f/2f rate. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier

:SOURce:DATA:TELeom:OTN:ODU[1..n]:F:FTFL:INDication

Description	This command sets the FTFL Fault Indication message to be generated for OTU1f/2f rate. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELeom:OTN:ODU[1..n]:F:FTFL:INDication <wsp><Fttl>, <Indication>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg. Indication: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the FTFL Fault Indication message to be generated. NFAult: No Fault SFAil: Signal Fail SDED: Signal Degraded RESERVED: Reserved
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:INDication?	
Description	This query returns the FTFL Fault Indication message to be generated for OTU1f/2f rate. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:INDication? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FTFL Fault Indication message to be generated. NFAULT, No Fault (NFAULT) is selected as FTFL Fault Indication message. SFAIL, Signal Fail (SFAIL) is selected as FTFL Fault Indication message. SDEGRADE, Signal Degraded (SDEGRADE) is selected as FTFL Fault Indication message. RESERVED, Reserved is selected as FTFL Fault Indication message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:INDication

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec

Description	This command sets the FTFL Operator Specific to be generated for OTU1f/2f rate. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec <wsp><Fttl>, <Specific>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Specific: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator specific to be generated.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec?	
Description	This query returns the FTFL Operator Specific to be generated for OTU1f/2f rate. At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU Fault Type Fault Location (FTFL). FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Specific>
Response(s)	Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?	
Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

Description	This command sets the selection of the Fault Type Fault Location (FTFL) Fault Indication code to be generated. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE <wsp><Fttl>, <Code>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig. Code: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the selection of the Fault Type Fault Location (FTFL) fault indicator code to be generated.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW Returns: 1 (the decimal form of #01H)
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?	
Description	This query returns the selection of the Fault Type Fault Location (FTFL) Fault Indication code to be generated. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of the Fault Type Fault Location (FTFL) fault indicator code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW Returns: 1 (the decimal form of #01H)
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier

Description	This command sets the Fault Type Fault Location (FTFL) Operator Identifier to be generated. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier <wsp><Ftl>, <Identifier>
Parameter(s)	Ftl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg. Identifier: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator identifier to be generated. A maximum of 9 characters are allowed.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?	
Description	This query returns the Fault Type Fault Location (FTFL) Operator Identifier to be generated. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKWard, sets the Backward CONFIg.
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN FORW,exfo SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication

Description	This command sets the selection of the Fault Type Fault Location (FTFL) Fault Indication message to be generated. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication <wsp><Fttl>, <Indication>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg. Indication: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the fault indication of the Fault Type Fault Location (FTFL) fault indicator message to be generated. NFAult: No Fault SFAil: Signal Fail SDED: Signal Degraded RESERVED: Reserved
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU1:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?	
Description	This query returns the selection of the Fault Type Fault Location (FTFL) Fault Indication message to be generated. At *RST condition, this value is set to NFAult. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Fault Type Fault Location (FTFL) Fault Indication message to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND FORW,SFA SOUR:DATA:TEL:OTN:ODU1:FTFL:IND? FORW Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

Description	This command sets the Fault Type Fault Location (FTFL) Operator Specific to be generated. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec <wsp><Fttl>, <Specific>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg. Specific: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the operator specific to be generated. A maximum of 118 characters are allowed.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?	
Description	This query returns the Fault Type Fault Location (FTFL) Operator Specific to be generated. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Opertor Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec? <wsp><Fttl>
Parameter(s)	Fttl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFIg of the forward and backward ODU FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFIg. BACKward, sets the Backward CONFIg.
Response Syntax	<Specific>
Response(s)	Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP FORW,exfo SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP? FORW Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?	
Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB ON SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCoDe

Description	This command sets the corresponding injected payload type as hexadecimal code for OTU1e/2e rate. At *RST condition, this value is set to #H00. Navigation Path: Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCoDe <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding injected payload type in hexadecimal code. The values are 00 to FF.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:E:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCoDe SENSe:DATA:TELecom:OTN:OPU[1..n]:PCoDe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODE?	
Description	This query returns the corresponding injected payload type as hexadecimal code for OTU1e/2e rate. At *RST condition, this value is set to #H03. Navigation Path: Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding injected payload type as decimal code. The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:E:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SOURce:DATA:TELeom:OTN:OPU[1..n]:E:PTYPE

Description	This command sets the injected payload signal type to be generated for OTU1e/2e rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SOURce:DATA:TELeom:OTN:OPU[1..n]:E:PTYPE <wsp><Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Parameter(s)

Payload:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

RFStandard: the Reserved for International Standardization

EXPerimental the Experimental mapping.

ASYNchronous: the Asynchronous CBR mapping.

BISYNch: the Bit Synchronous CBR mapping.

ATM: the ATM mapping

GFP1: the GFP mapping.

VCONcate: the Virtual Concatenation

PCSCODEWORD: the PCS Codeword Transparent Ethernet

FC1200ODU2E: the FC-1200 into ODU2e

GFPEOPU2: the GFP mapping into extended OPU2

OC3STM1ODU0: OC-3/STM-1 into ODU0

OC12STM4ODU0: OC-12/STM-4 into ODU0

FC100ODU0: the FC-100 into ODU0

FC200ODU1: the s FC-200 into ODU1

FC400: the FC-400 into ODUflex

FC800: the FC-800 into ODUflex

BSTiming: the Bit Stream Timing.

BSNTiming: Bit Stream No Timing.

IBSDRMAPPING: IB SDR mapping into ODUflex

IBDRMAPPING: IB DDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

ODUODTUKTSODTUJK: ODU Multiplex with ODTUjk

ODUODTUJK: ODU Multiplex with ODTUk.ts/ODTUjk

NAVailable: Not Available.

RPRopriet: Reserved Codes for Proprietary Use

NULLtest: NULL Test Signal mapping

PRBStest: PRBS Test Signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP EXP SOUR:DATA:TEL:OTN:OPU1:E:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABLEd	
Description	This command enables/disables PT Overwrite for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABLEd <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABLEd?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled?	
Description	This query returns the status of the PT Overwrite for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?	
Description	This query returns the injected payload signal type to be generated for OTU1e/2e rate. At *RST condition, this value is set to PRBSTest. Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?
Response Syntax	<Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPE?

Response(s)

Payload:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the expected payload signal type to be generated.

RFSTandard, Reserved for International Standardization is selected.

EXPerimental, Experimental mapping is selected.

ASYNchronous, Asynchronous CBR mapping is selected.

BISYNch, Bit Synchronous CBR mapping as the payload type is selected.

ATM, ATM mapping is selected.

GFP1, GFP mapping is selected.

VCONcate, Virtual Concatenation is selected.

PCSCTE, PCS Codeword Transparent Ethernet is selected.

FC1200ODU2E, FC-1200 into ODU2e is selected.

GFPEOPU2, GFP mapping into extended OPU2 is selected.

OC3STM1ODU0, OC-3/STM-1 into ODU0 is selected.

OC12STM4ODU0, OC-12/STM-4 into ODU0 is selected.

FC100ODU0, FC-100 into ODU0 is selected.

FC200ODU1, FC-200 into ODU0 is selected.

FC400, FC-400 into ODUFlex is selected.

FC800, FC-800 into ODUFlex is selected.

BSTiming, Bit Stream with Octet Timing mapping is selected.

BSNTiming, Bit Stream Without Octet Timing mapping is selected.

IBDRMAPPING, IB DDR mapping into ODUFlex is selected.

IBSDRMAPPING, IB SDR mapping into ODUFlex is selected.

IBQDRMAPPING, IB QDR mapping into ODUFlex is selected.

ODUODTUKTSODTUJK, ODU Multiplex with ODTUjk is selected.

ODUODTUJK, ODU Multiplex with ODTUk.ts/ODTUjk as the payload type is selected.

NAVailable, Not Available is selected.

RPRopriet, Reserved Codes for Proprietary is selected.

NULLtest, NULL Test Signal mapping is selected.

PRBStest, PRBS Test Signal mapping is selected.

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?	
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP EXP SOUR:DATA:TEL:OTN:OPU1:E:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCoDe

Description	This command sets the corresponding injected payload type as hexadecimal code for OTU1f/2f rate. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCoDe <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding injected payload type in hexadecimal code. The values are 00 to FF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:F:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCoDe SENSe:DATA:TELecom:OTN:OPU[1..n]:PCoDe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODE?	
Description	This query returns the corresponding injected payload type as hexadecimal code for OTU1f/2f rate. At *RST condition, this value is set to #H03. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding injected payload type as decimal code. The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:F:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE

Description	This command sets the injected payload signal type to be generated for OTU1f/2f rate. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE <wsp><Payload>

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:F:PTYPE

Parameter(s)

Payload:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

RFSTandard: Reserved for international standardization

EXPerimental: Experimental mapping

ASYNchronous Asynchronous CBR mapping

BISYNch: Bit synchronous CBR mapping

ATM: ATM mapping

GFP1: GFP Mapping

VCONcate: Virtual Concatenated signal

PCSCODEWORD: PCS Codeword transparent Ethernet

FC1200ODU2E: FC-1200 into ODU2e

GFPEOPU2: GFP mapping into extended OPU2

OC3STM1ODU0: OC3/STM-1 into ODU0

OC12STM4ODU0: OC12/STM-4 into ODU0

FC100ODU0: FC-100 into ODU0

FC200ODU1: FC-200 into ODU1

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

BSTiming: Bit stream with octet timing mapping

BSNTiming: Bit stream without octet timing mapping

IBDRMAPPING: IB DDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

ODUODTUJK: ODU multiplex with ODTUjk

ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk

NAVailable: Not available

RPRopriet: Reserved codes for proprietary use

NULLtest: NULL test signal mapping

PRBStest: PRBS test signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP EXP SOUR:DATA:TEL:OTN:OPU1:F:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled	
Description	This command enables/disables PT Overwrite for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?

Description	This query returns the status of the PT Overwrite for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE?	
Description	This query returns the injected payload signal type to be generated for OTU1f/2f rate. At *RST condition, this value is set to PRBSTest. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPE?
Response Syntax	<Payload>

:SOURce:DATA:TELeom:OTN:OPU[1..n]:F:PTYPE?**Response(s)****Payload:**

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the expected payload signal type to be generated.

RFSTANDARD, indicates Reserved for international standardization

EXPERIMENTAL, indicates Experimental mapping

ASYNCHRONOUS, indicates Asynchronous CBR mapping

BISYNCH, indicates Bit synchronous CBR mapping

ATM, indicates ATM mapping

GFP1, indicates GFP Mapping

VCONCATE, indicates Virtual Concatenated signal

PCSCODEWORD, indicates PCS Codeword transparent Ethernet

FC1200ODU2E, indicates FC-1200 into ODU2e

GFPEOPU2, indicates GFP mapping into extended OPU2

OC3STM1ODU0, indicates OC3/STM-1 into ODU0

OC12STM4ODU0, indicates OC12/STM-4 into ODU0

FC100ODU0, indicates FC-100 into ODU0

FC200ODU1, indicates FC-200 into ODU1

FC400, indicates FC-400 into ODUflex

FC800, indicates FC-800 into ODUflex

BSTIMING, indicates Bit stream with octet timing mapping

BSNTIMING, indicates Bit stream without octet timing mapping

IBDRMAPPING, indicates IB DDR mapping into ODUflex

IBSDRMAPPING, indicates IB SDR mapping into ODUflex

IBQDRMAPPING, indicates IB QDR mapping into ODUflex

ODUODTUJK, indicates ODU multiplex with ODTUjk

ODUODTUKTSODTUJK, indicates ODU multiplex with ODTUk.ts/ODTUjk

NAVAILABLE, indicates Not available

RPROPRIET, indicates Reserved codes for proprietary use

NULLTEST, indicates NULL test signal mapping

PRBSTEST, indicates PRBS test signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?	
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP EXP SOUR:DATA:TEL:OTN:OPU1:F:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE

Description	This command sets the corresponding injected payload type as hexadecimal code. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE <wsp><Code>
Parameter(s)	Code: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding injected payload type in hexadecimal code. The values are 00 to FF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?	
Description	This query returns the corresponding injected payload type as hexadecimal code. At *RST condition, this value is set to #H03. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the corresponding injected payload type as decimal code. The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:PCOD? Returns: 00 (the decimal form of #H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Description	This command sets the injected payload signal type to be generated. At *RST condition, this value is set to PRBStest. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe <wsp><Payload Type>

:SOURce:DATA:TELEcom:OTN:OPU[1..n]:PTYPe

Parameter(s)	Payload Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the injected payload signal type to be generated. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYNch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2
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:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	IBDRMAPPING: IB DDR mapping into ODUflex IBQDRMAPPING: IB QDR mapping into ODUflex IBSDRMAPPING: IB SDR mapping into ODUflex NAVailable: Not available NULLtest: NULL test signal mapping OC12STM4ODU0: OC12/STM-4 into ODU0 OC3STM1ODU0: OC3/STM-1 into ODU0 ODUODTUCNTS: ODU multiplex with ODTUCn.ts ODUODTUJK: ODU multiplex with ODTUjk ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk PCSCODEWORD: PCS Codeword transparent Ethernet PRBStest: PRBS test signal mapping RFSTandard: Reserved for international standardization RPRopriet: Reserved codes for proprietary use SBCONESCONOPU0: SBCON/ESCON mapping into OPU0 SDIMAPPING: SDI mapping into OPU0 VCONcate: Virtual Concatenated signal
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Response Syntax <Code>

Example(s) SOUR:DATA:TEL:OTN:OPU1:PTYP EXP
SOUR:DATA:TEL:OTN:OPU1:PTYP?
Returns: EXPERIMENTAL

See Also SENSE:DATA:TELecom:OTN:OPU[1..n]:PTYPe
SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled	
Description	This command enables/disables the Payload Type Overwrite feature. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABLEd <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:FTFL:OVERwrite:ENABLEd

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled?

Description	This query returns the status of Payload Type Overwrite feature. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB ON SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:FTFL:OVERwrite:ENABLEd

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?	
Description	This query returns the injected payload signal type to be generated. At *RST condition, this value is set to PRBSTest. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
Response Syntax	<Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPE?

Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected payload signal type to be generated. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYNch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2
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:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?	
Response(s)	IBDRMAPPING: IB DDR mapping into ODUflex IBQDRMAPPING: IB QDR mapping into ODUflex IBSDRMAPPING: IB SDR mapping into ODUflex NAVailable: Not available NULLtest: NULL test signal mapping OC12STM4ODU0: OC12/STM-4 into ODU0 OC3STM1ODU0: OC3/STM-1 into ODU0 ODUODTUCNTS: ODU multiplex with ODTUCn.ts ODUODTUJK: ODU multiplex with ODTUjk ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk PCSCODEWORD: PCS Codeword transparent Ethernet PRBStest: PRBS test signal mapping RFSTandard: Reserved for international standardization RPRopriet: Reserved codes for proprietary use SBCONESCONOPU0: SBCON/ESCON mapping into OPU0 SDIMAPPING: SDI mapping into OPU0 VCONcate: Virtual Concatenated signal
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PTYP EXP SOUR:DATA:TEL:OTN:OPU1:PTYP? Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

MAC/IP/UDP

:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVer sion	
Description	This command sets the Destination IPv6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > IPv6 Destination Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > IPv6 Destination Address
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVersion <wsp><Number>,<Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination IPv6 address.
Response Syntax	<Llayer>
Example(s)	SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPV 1, FE80:0000:0000:0000:0200:00FF:FE00:0000 SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPV?

:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVer sion?	
Description	This query returns the Destination IPv6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > IPv6 Destination Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > IPv6 Destination Address
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVersion? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination IPv6 address.
Example(s)	SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPV 1, FE80:0000:0000:0000:0200:00FF:FE00:0000 SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPV

:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion

Description	This command sets the IPv6 Flow Label. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Flow Label Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Flow Label
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion <wsp><Stream>, <Flow Label>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Flow Label: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Flow Label. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FLAB:IPV 1, 20 SENS:DATA:TEL:ETH:STR:FLAB:IPV? 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV?

:SENSe:DATA:TELEcom:ETHernet:STReam:FLABel:IPVersion?	
Description	This query returns the IPv6 Flow Label. At *RST condition, this value is set to 0 Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Flow Label Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Flow Label
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FLABel:IPVersion? <wsp><Stream>,[<Flow Label>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Flow Label: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current flow label is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Flabel>
Response(s)	Flabel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Flow Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FLAB:IPV 1, 20 SENS:DATA:TEL:ETH:STR:FLAB:IPV? 1 Returns: 21
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPV

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID

Description	This command sets the Virtual Local Area Network (VLAN) Identification for frame of the selected service, direction, and stack. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID <wsp> <Service> , <Direction> , <Stacked> , <Id>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Id: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the VLAN ID. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID	
Response Syntax	<Flabel>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN 1, LTOR,ON SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:STAC 1, LTOR,2 SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID 1, LTOR,1, 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:TYPE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit

Description	This command enables/disables the user Virtual Local Area Network (VLAN) eligible bit for frame parameters for selected service, direction, and stack. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit <wsp><Service>, <Direction>, <Stacked>, <Set>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Set: The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable or disable the eligible bit for the specific VLAN Id. ON: Enabled OFF: Disabled

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit	
Response Syntax	<Flabel>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit 1, LTOR,2,ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:STAC

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

Description	This query returns the status of user VLAN eligible bit for frame parameters for selected service, direction, and stack. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit? <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Status>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of eligible bit. 1, eligible bit is enabled. 0, eligible bit is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit 1, LTOR,2,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit? 1, LTOR,2 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:STAC?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVICES:VLAN:ID?

Description	This query returns the available VLAN ID for frame of the selected service, direction, and stack. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVICES:VLAN:ID? <wsp><Service>,<Direction>,<Stacked>,[<Id>]
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Id: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the VLAN ID. This parameter is optional. If no token is specified, the current VLAN ID value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID?	
Response Syntax	<Id>
Response(s)	Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of VLAN identification.
Example(s)	SOURce:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN 1, LTOR,ON SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:STAC 1, LTOR,2 SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID 1, LTOR,1, 50 SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID? 1, LTOR,1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority

Description	This command sets the priority of the Virtual Local Area Network (VLAN) identification for frame parameters for selected service, direction, and stack. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority <wsp> <Service>, <Direction>, <Stacked>, <Priority>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Priority: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the priority of the stream. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Deault value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority

Response Syntax	<Id>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority 1, LTOR,2,5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:BIRFrame

:SOURce:DATA:TELeom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority?

Description	This query returns the priority of the Virtual Local Area Network (VLAN) identification for frame parameters for selected service, direction, and stack. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELeom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority? <wsp> <Service>, <Direction>, <Stacked>,[<Priority>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Priority: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the priority of the stream. MAXimum is used to retrieve the instrument's greatest supported Virtual Local Area Network (VLAN) priority Value. MINimum is used to retrieve the instrument's smallest supported Virtual Local Area Network (VLAN) priority Value. This parameter is optional. If no token is specified, the current priority of the Virtual Local Area Network (VLAN) value is returned. DEFault is used to retrieve the instrument's default supported Virtual Local Area Network (VLAN) priority Value.
Response Syntax	<Priority>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority?

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns value of VLAN priority.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority 1, LTOR,2,5 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRiority? 1, LTOR,2 Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:BIRFrame?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE

Description	This command sets the type of Virtual Local Area Network (VLAN) identification for frame parameters specific VLAN service, direction, and stack. At *RST condition, this value is set to V8100. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE <wsp><Service>, <Direction>, <Stacked>, <Idtype>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Idtype: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects VLAN type. V8100: VLAN type 8100. V88A8: VLAN type 88A8. V9100: VLAN type 9100. V9200: VLAN type 9200. V9300: VLAN type 9300.

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE	
Response Syntax	<Priority>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE 1, LTOR,1, V88A8 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? 1, LTOR,1 Returns: V88A8
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Description	This command sets the type of Virtual Local Area Network (VLAN) identification for frame parameters specific VLAN service, direction, and stack. At *RST condition, this value is set to V8100. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Idtype>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Response(s)	Idtype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) type. V8100, VLAN type 8100 is selected. V88A8, VLAN type 88A8 is selected. V9100, VLAN type 9100 is selected. V9200, VLAN type 9200 is selected. V9300, VLAN type 9300 is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE 1, LTOR,1, V88A8 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? 1, LTOR,1 Returns: V88A8
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination	
Description	This command sets the Media Access Control (MAC) destination address of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Destination MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Destination MAC Address Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > MAC > Destination MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination <wsp><Number>, <Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the destination MAC address.
Response Syntax	<Idtype>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1, FE:FE:FE:00:00:00 SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1 Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination? SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:SOURce

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding	
Description	This command enables the Destination MAC Flooding. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Destination Flooding
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding <wsp> <Stream>, <Set>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Destination MAC Flooding. ON, enables the Destination MAC Flooding. OFF, disables the Destination MAC Flooding.
Response Syntax	<Idtype>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO 1,ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce?

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding?	
Description	This query returns status of Destination MAC Flooding. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Destination Flooding
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:FLOoding? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Destination MAC Flooding. 1, Destination MAC Flooding is enabled. 0, Destination MAC Flooding is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO 1,ON SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce

:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP	
Description	This command sets the IPv4 destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Destination IP Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Destination IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP <wsp><Number>,<Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Set the destination IP address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1, 1.1.1.1 SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1 Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP?	
Description	This query returns the IPv4 destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Destination IP Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Destination IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1, 1.1.1.1 SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1 Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DESTination:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination?

Description	This query returns the Media Access Control (MAC) destination address of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Destination MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Destination MAC Address Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > MAC > Destination MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1, FE:FE:FE:00:00:00 SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1 Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce?

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:FLOodi ng:RANGe	
Description	This command sets the Source/Destination MAC Flooding range. At *RST condition, this value is set to 4096. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Flooding Range
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:FLOoding:RANGe <wsp> <Stream> , <Range>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Range: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Source/Destination MAC Flooding range. Range is from 2 to 4096.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG 1,64
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:DESTination?

:SOURce:DATA:TELecom:ETHerNet:STReam:ADDReSS:FLOoding:RANGe?

Description	This query returns the Source/Destination MAC Flooding range. At *RST condition, this value is set to 4096. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Flooding Range
Syntax	:SOURce:DATA:TELecom:ETHerNet:STReam:ADDReSS:FLOoding:RANGe? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Source/Destination MAC Flooding range.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG 1,64 SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG? 1 Returns: 64
See Also	SOURce:DATA:TELecom:ETHerNet:STReam:ADDReSS:DESTination

:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce	
Description	This command sets the Media Access Control (MAC) source address. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Source MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Source MAC Address Navigation Path: Setup > Test Configurator > Clients > MAC > Source MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce <wsp><Number>, <Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT - 1 for other test applications Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the source MAC address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR 1, FE:FE:FE:00:00:00 SOUR:DATA:TEL:ETH:STR:ADDR:SOUR? 1 Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:SOURce? SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:FLOoding

Description	This command enables the Source MAC Flooding. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Source Flooding
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:FLOoding <wsp> <Stream>, <Set>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Source MAC Flooding. ON, enables the Source MAC Flooding OFF, disables the Source MAC Flooding
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO 1,ON
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP?

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:FLooDing?

Description	This query returns Source MAC Flooding. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Source Flooding
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:FLooDing? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Source MAC Flooding. 1, Source MAC Flooding is enabled. 0, Source MAC Flooding is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO 1,ON SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP

Description	This command sets the IPv4 source address. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP <wsp><Number>,<Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the source IP address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP 1, 1.1.1.1 SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1 Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP?

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP?	
Description	This query returns the source IPv4 address. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the source IP address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP 1, 1.1.1.1 SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1 Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce:IP

:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce ?

Description	This query returns the Media Access Control (MAC) source address. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Source MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Source MAC Address Navigation Path: Setup > Test Configurator > Clients > MAC > Source MAC Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce? <wsp> <Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT - 1 for other test applications
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the source MAC address.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR 1, FE:FE:FE:FE:00:00 SOUR:DATA:TEL:ETH:STR:ADDR:SOUR? 1 Returns: FE:FE:FE:FE:00:00
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:SOURce SOURce:DATA:TELecom:ETHeRnet:STReam:ADDReSS:DESTination?

:SOURce:DATA:TELecom:ETHeRnet:STReam:COUPled:ENABle

Description	This command enables/disables the coupled status At *RST condition, this value is set to OFF. Navigation Path: setup > test Configurator > MAC/IP/UDP > Coupled with Interface Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Coupled with Interface
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:COUPled:ENABle <wsp> <Stream ID>, <Status>
Parameter(s)	Stream ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Address>
Example(s)	SOURce:DATA:TEL:ETH:STR:COUP:ENAB 1, ON SOURce:DATA:TEL:ETH:STR:COUP:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle?

Description	This query returns coupled status At *RST condition, this value is set to OFF. Navigation Path: setup > test Configurator > MAC/IP/UDP > Coupled with Interface Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Coupled with Interface
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle? <wsp> <Stream ID>
Parameter(s)	Stream ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TEL:ETH:STR:COUP:ENAB 1, ON SOURce:DATA:TEL:ETH:STR:COUP:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway	
Description	This command enables/disables the IPv4 gateway status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway <wsp><Number>,[<Set>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the IP gateway for the selected stream. ON, Enables IP gateway for the selected stream. OFF, disables IP gateway for the selected stream.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway?

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRESS

Description	This command sets the default gateway IPv4 address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRESS <wsp> <Number> , <Address>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the default IP gateway address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1, 0.0.1.1 SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1 Returns: 0.0.1.1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRESS?

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?	
Description	This query returns the default gateway IPv4 address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess? <wsp> <Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the default gateway IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1, 0.0.1.1 SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1 Returns: 0.0.1.1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway?

Description	This query returns the IPv4 gateway status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the IP gateway. 1, IP gateway is enabled. 0, IP gateway is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs	
Description	This command sets the Type of Service/Differentiated Services (TOS/DS) value. At *RST condition, this value is set to 00. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > IP TOS/DS Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs <wsp><Number>,<Tosds>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Tosds: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the TOS/DS value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1, #HFF SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1 Returns: 255
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TOSDs?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

Description	This query returns the Type of Service/Differentiated Services (TOS/DS) value. At *RST condition, this value is set to 00. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > IP TOS/DS Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Tosds>
Response(s)	Tosds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TOSDS value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1, #HFF SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1 Returns: 255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL	
Description	This command sets the Time to Live (TTL) value (IPv4). At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TTL Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL <wsp><Number>,[<TTL>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM TTL: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TTL value. Choices are 0 to 255. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tosds>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1, 200 SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1 Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?	
Description	This query returns the Time to Live (TTL) value (IPv4). At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TTL Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL? <wsp> <Number>,[<TTL>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM TTL: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the TTL value. This parameter is optional. If no token is specified, the current TTL value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Ttl>
Response(s)	Ttl: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TTL value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1, 200 SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1 Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT	
Description	This command sets the UDP destination port number. At *RST condition, this value is set to 7. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Destination Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT <wsp><Number>,[<DPort>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM DPort: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the UDP destination port value for selected stream. Choices are 0 to 65535. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Ttl>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT 1, 60 SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1 Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT? SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

Description	This command sets the TCP destination port number. At *RST condition, this value is set to 7. Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Destination Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP <wsp><Number>,[<DPort>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM DPort: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TCP destination port number. MAXimum, sets the maximum destination port value. MINimum, sets the minimum destination port value. DEFault: Default value
Response Syntax	<Ttl>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1, 60 SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1 Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP?	
Description	This query returns the TCP destination port value. At *RST condition, this value is set to 7. Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Destination Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Destination Port
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP? <wsp><Number>,[<DPort>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM DPort: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TCP destination port number. MAXimum, sets the maximum destination port value. MINimum, sets the minimum destination port value. DEFault: Default value
Response Syntax	<Dport>
Response(s)	Dport: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns destination port number.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1, 60 SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1 Returns: 60
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Description	This query returns the UDP destination port number. At *RST condition, this value is set to 7. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Destination Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT? <wsp><Number>,[<DPort>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM DPort: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the UDP destination port value for the selected stream. This parameter is optional. If no token is specified, the current UDP destination port number is returned. Choices are 0 to 65535. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dport>

:SOURce:DATA:TELecom:ETHeRnet:STReam:DESTination:PORT?

Response(s)	Dport: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns UDP destination port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT 1, 60 SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1 Returns: 60
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:DESTination:PORT SOURce:DATA:TELecom:ETHeRnet:STReam:SOURce:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve	
Description	This command sends a request to the network to retrieve the MAC address corresponding to the selected destination IP/IPv6 address. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve[<wsp><Number>],[<Set>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the Resolved MAC address status. ON, resolved MAC address status is enabled. OFF, resolved MAC address status is disabled.
Response Syntax	<Dport>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON SOUR:DATA:TEL:ETH:STR:DEST:RES? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve:STATus?	
Description	This query returns the status of the resolved MAC address. When enabled, will send an ARP request to the network to retrieve the MAC address corresponding to the selected IP/IPv6 address. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve:STATus? [<wsp><Number>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the resolved MAC address status. FAILED, Failed is retrieved. NRESOLVED, Not Resolved is retrieved. RESOLVED, Resolved is retrieved.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON SOUR:DATA:TEL:ETH:STR:DEST:RES:STAT? 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve

:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve?

Description	This query returns the status of the resolved MAC address setting corresponding to the selected destination IP/IPv6 address. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve?[<wsp><Number>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of resolved MAC destination address. 1, resolved MAC destination address is Enabled. 0, resolved MAC destination address is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON SOUR:DATA:TEL:ETH:STR:DEST:RES? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:RESolve

:SOURce:DATA:TELEcom:ETHernet:STReam:ETHer	
Description	This command sets the ether type for the selected traffic stream. At *RST condition, this value is set to 0x0000 when Network Layer is set to None; 0x0800 for IPv4; 0x86DD for IPv6; 0x8847 for MPLS; 0x8902 for S-OAM (available with EtherSAM) Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > EtherType
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:ETHer <wsp><Number>, <Set>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Set: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EtherType for the selected stream: 0x0000 to 0xFFFF. Available when the Network Layer is set to None.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ETH 1, 0080 SOUR:DATA:TEL:ETH:STR:ETH? 1 Returns: 0080
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:ETHer?

Description	At *RST condition, this value is set to 0x0000 when Network Layer is set to None; 0x0800 for IPv4; 0x86DD for IPv6; 0x8847 for MPLS; 0x88B7 when Network Layer is set to None with EtherBERT test; 0x8902 for S-OAM (available with EtherSAM). Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > EtherType
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ETHer? <wsp> <Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the EtherType.
Example(s)	SOUR:DATA:TEL:ETH:STR:ETH? 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATus	
Description	This command enables/disables the IPv4 Automatic (DHCP) status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Automatic IP (DHCP) Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATus <wsp><Tgen>,[<Set>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the IP Automatic status for the selected stream. ON, Enables IP Automatic status for the selected stream. OFF, disables IP Automatic status for the selected stream.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATus?

Description	This query returns the IPv4 Automatic (DHCP) status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Automatic IP (DHCP) Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATus? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Automatic IP. 1, Automatic IP is enabled. 0, Automatic IP is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:IP:AUTomatic:STATus

:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LI Mit	
Description	This command Set The Hop Limit field of the IPv6 header shall be configurable. At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Hop Limit Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Hop Limit
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LIMit <wsp><Stream>, <HOP Limit>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. HOP Limit: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the HOP Limit MAXimum: Biggest supported value MINimum: Smallest supported value DEFAult: Default value
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:IPV:HOP:LIMit 1, 25 SOURce:DATA:TELEcom:ETHernet:STReam:IPV:HOP:LIMit? 1
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:ADDRes? SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:MODE SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:IlCoupled

:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LI
Mit?

Description	This query returns The Hop Limit field of the IPv6 header shall be configurable. At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Hop Limit Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Hop Limit
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:IPVersion:HOP:LIMit? <wsp><Stream>,[<HOP Limit>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. HOP Limit: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Hop Limit is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<HOP Limit>
Response(s)	HOP Limit: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Hop Limit.
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:IPV:HOP:LIMit 1, 25 SOURce:DATA:TELEcom:ETHernet:STReam:IPV:HOP:LIMit? 2
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:ADDRes SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:MODE SOURce:DATA:TELEcom:ETHernet:PORT:GLOB:IPV:IICoupled

:SOURce:DATA:TELEcom:ETHernet:STReam:MAC:OUI	
Description	This command sets the frame format OUI type for 802.3 SNAP frame format. At *RST condition, this value is device dependent. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > MAC > OUI Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > OUI
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MAC:OUI <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Frame format type RFC1042, sets frame format type to RFC1042 8021H,sets frame format type to 8021H USERDEFined, sets frame format type to USERDEFINED
Response Syntax	<HOP Limit>
Example(s)	SOUR:DATA:TEL:ETH:STR:MAC:OUI RFC1042 SOUR:DATA:TEL:ETH:STR:MAC:OUI? Returns: RFC1042
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI RFC1042 SOURce:DATA:TELEcom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI? Returns RFC1042

:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI?

Description	This query returns the frame format OUI type for 802.3 SNAP frame format. At *RST condition, this value is device dependent. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > MAC > OUI Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > OUI
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI?
Response Syntax	<OUI>
Response(s)	OUI: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame format type RFC1042, Returns as RFC1042 frame format. 8021H,Returns 8021H as frame format. USERDEFINED,Returns USERDEFINED as frame format.
Example(s)	SOUR:DATA:TEL:ETH:STR:MAC:OUI RFC1042 SOUR:DATA:TEL:ETH:STR:MAC:OUI? Returns: RFC1043
See Also	SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI RFC1042 SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI? Returns RFC1042

:SOURce:DATA:TELecom:ETHeRnet:STReam:MPLS:COSexp	
Description	This command selects the COS/EXP value. At *RST condition, this value is st to 0 (000 - Low) (default). Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > COS
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:MPLS:COSexp <wsp> <Number>, <Label Index>, <Cosexp>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index. Cosexp: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the COS/EXP value. Sets the Class Of Service for the instrument. 000LOW: 0 (000 - Low) 001LOW: 1 (001 - Low) 010LOW: 2 (010 - Low) 011LOW: 3 (011 - Low) 100HIGH: 4 (100 - High) 101HIGH: 5 (101 - High) 110HIGH: 6 (110 - High) 111HIGH: 7 (111 - High)

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

Response Syntax	<OUI>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:COS 1, 1, 111HIGH SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1, 1 Returns: 111HIGH
See Also	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers SOURce:DATA:TELecom:ETHernet:MPLS:HEADers?

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:COSexp?	
Description	This query returns the COS/EXP value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > COS
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:COSexp? <wsp><Number>, <Label Index>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index.
Response Syntax	<Cosexp>

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Response(s)	Cosexp: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Class Of Service for the instrument. 000LOW, returns 0 (000 - Low) as Class Of Service. 001LOW, returns 1 (001 - Low) as Class Of Service. 010LOW, returns 2 (010 - Low) as Class Of Service. 011LOW, returns 3 (011 - Low) as Class Of Service. 100HIGH, returns 4 (100 - High) as Class Of Service. 101HIGH, returns 5 (101 - High) as Class Of Service. 110HIGH, returns 6 (110 - High) as Class Of Service. 111HIGH, returns 7 (111 - High) as Class Of Service.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:COS 1, 1, 000LOW SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1, 1 Returns: 000LOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel	
Description	This command sets the Multi Protocol Label Switching (MPLS) label type. At *RST condition, this value is set to 16. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > Label
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel <wsp><Number>, <Label Index>, <Label Value>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index. Label Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the label value. Choices are 0 through 1048575. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Cosexp>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1, 1, 16 SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1, 1 Returns: 16
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:TTL

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel?

Description	This query returns the Multi Protocol Label Switching (MPLS) label type. At *RST condition, this value is set to 16. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > Label
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel? <wsp><Number>, <Label Index>,[<Label Value>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index. Label Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Label>

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:LABel?

Response(s)	Label: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the label value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1, 1, 16 SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1, 1 Returns: 16
See Also	SOURce:DATA:TELEcom:ETHernet:MPLS:HEADers SOURce:DATA:TELEcom:ETHernet:MPLS:HEADers?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

Description	This command sets the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS). At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL <wsp><Number>, <Label Index>, <TTL>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index. TTL: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TTL value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1, 1, 200 SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1, 1 Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?	
Description	This query returns the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS). At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL? <wsp><Number>,<Label Index>,[<TTL>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index. TTL: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TTL value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TTL>
Response(s)	TTL: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TTL value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1, 1, 200 SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1, 1 Returns: 200
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel?

:SOURce:DATA:TELecom:ETHeRnet:STReam:PAYLoad

Description	The command sets the payload pattern. At *RST condition, this value is set to #HCC. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > Pattern
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:PAYLoad <wsp><Tgen>, <Pattern>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Pattern: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the payload pattern value. Choices are #H00 through #HFF.
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL 1, #HFF SOUR:DATA:TEL:ETH:STR:PAYL? 1 Returns: 255
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader	
Description	This command sets the User Defined Header value. At *RST condition, this value is set to "00000000000000000000000000000000". Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader <wsp><Stream>, <Set>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the User Defined Header.
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH 1, "0000000000000000000000000000000011" SOUR:DATA:TEL:ETH:STR:PAYL:UDH? 1 Returns: "0000000000000000000000000000000011"
See Also	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABle

Description	This command enables/disables User Defined Header. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABle <wsp><Stream>,<Status>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB 1, ON SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABLE?

Description	This query returns the enable/disable statuf of User Defined Header. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader:ENABLE? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB 1, ON SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader?

Description	This query returns the User Defined Header value. At *RST condition, this value is set to "00000000000000000000000000000000". Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad:UDHeader? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Header>
Response(s)	Header: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the User Defined Header value.
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH 1, "0000000000000000000000000000000011" SOUR:DATA:TEL:ETH:STR:PAYL:UDH? 1 Returns: "0000000000000000000000000000000011"
See Also	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB

:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad?	
Description	This query returns payload pattern. At *RST condition, this value is set to #HCC. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > Pattern
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PAYLoad? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the payload value.
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL 1, #HFF SOUR:DATA:TEL:ETH:STR:PAYL? 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE?

:SOURce:DATA:TELecom:ETHernet:STReam:QPING

Description	This command quick pings with parameters for mentioned stream. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > Quick Ping Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Quick Ping
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QPING <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the stream number. Range: 1 to 16
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:ETH:STR:QPING 1 SOUR:DATA:TEL:ETH:STR:QPING?
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDReSS:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:QPING?	
Description	This query returns the status of last Quick ping done Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > Quick Ping Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Quick Ping
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QPING?
Response Syntax	<Ping Status>
Response(s)	Ping Status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Quick ping status. INPROGRESS SUCCESSFUL FAIL NOPINGDONE
Example(s)	SOUR:DATA:TEL:ETH:STR:QPING 1 SOUR:DATA:TEL:ETH:STR:QPING?
See Also	SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDReSS:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTi
plicat

Description	This command enables/disables the IPv4 multiplier. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTipicat <wsp><Stream>, <Status>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables <Ping Status>
Response Syntax	
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTi plicat?	
Description	This query returns the status of IPv4 multiplicator. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplicator Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTipicat? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<IPv4 Multiplicator Status>
Response(s)	IPv4 Multiplicator Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of IPv4 multiplicator. 1, IPv4 multiplicator is Enabled. 0, IPv4 multiplicator is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe	
Description	This command sets the IPv4 multiplier range. At *RST condition, this value is set to 0To127. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe <wsp><Stream>, <Range>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Range: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the range for IP multiplier. 0T127: the range from 0 to 127. 1T128: the range from 1 to 128.
Response Syntax	<IPv4 Multiplier Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1, 1T128 SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1 Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASK?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?	
Description	This query returns the IPv4 multiplier range. At *RST condition, this value is set to 0To127. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Range>
Response(s)	Range: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the range for IPv4 multiplier. 0T127, range from 1 to 128 is selected. 1T128, range from 0 to 127 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1, 1T128 SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1 Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersio n:MULTiplicat	
Description	This command enables/disables the IPv6 multiplier. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat <wsp> <Stream> , <Status>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Range>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IPv6:HOP:LIMit

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersio n:MULTiplicat?	
Description	This query returns the status of IPv6 multiplier. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTipicat? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of IPv6 multiplier. 1, IPv6 multiplier is enabled. 0, IPv6 multiplier is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IPv6:HOP:LIMit?

:SOURce:DATA:TELeom:ETHernet:STReam:SOURce:IPVersio
n:RANGe

Description	This command sets the IPv6 multiplier range. At *RST condition, this value is set to 1T0128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplier
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:SOURce:IPVersion:RANGe <wsp> <Stream> , <Range>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Range: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the range for IPv6 multiplier. 0T127: the range from 0T127. 1T128: the range from 1T128.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG 1, 1T128 SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG? 1 Returns: 1T128
See Also	SOURce:DATA:TELeom:ETHernet:PORT:GLOB:IPV:PMASK? SOURce:DATA:TELeom:ETHernet:PORT:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersio n:RANGe?	
Description	This query returns the IPv6 multiplier range. At *RST condition, this value is set to 1T0128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplier Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplier
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Range>
Response(s)	Range: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the range for IPv6 multiplier. 1T128, range from 1T128 is selected. 0T127, range from 0T127 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG 1, 1T128 SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG? 1 Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:PMASK SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP

Description	This command sets the IPv4 subnet mask. At *RST condition, this value is set to 255.255.0.0. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP > Subnet Mask Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP <wsp> <Tgen>, <Mask>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Mask: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP subnet mask in the form of a string.
Response Syntax	<Range>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1, 255.255.255.255 SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1 Returns: 255.255.255.255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP? SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRes

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:MASK:IP? ?	
Description	This query returns the IPv4 subnet mask. At *RST condition, this value is set to 255.255.0.0. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP > Subnet Mask Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Subnet Mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:MASK:IP? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP mask address in form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1, 255.255.255.255 SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1 Returns: 255.255.255.255
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:MASK:IP SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:IP:GATeway:ADDRes

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT

Description	This command sets the UDP source port number. At *RST condition, this value is set to 49184. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Source Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT <wsp> <Tgen>,[<Port>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the UDP source port number. Choices are 0 to 65535. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1, 65500 SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1 Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT? SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP	
Description	This command sets the TCP source port number. At *RST condition, this value is set to 49184. Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Source Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP <wsp><Tgen>,[<Port>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the port number. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1, 65500 SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1 Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?	
Description	This query returns the TCP source port number. At *RST condition, this value is set to 49184. Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Source Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP? <wsp><Tgen>,[<Port>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the source port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1, 65500 SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1 Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT?	
Description	This query returns the UDP source port number. At *RST condition, this value is set to 49184. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Source Port Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Source Port
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT? <wsp><Tgen>,[<Port>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the UDP source port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1, 65500 SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1 Returns: 65500
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:SOURce:PORT SOURce:DATA:TELEcom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID

Description	This command sets the Virtual Local Area Network (VLAN) Identification (ID) of the stream. At *RST condition, this value is set to 2. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > VLAN ID Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID <wsp> <Number>, <Stacked>, <ID>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. ID: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) ID of the stream. Choices are 0 to 4095. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID 1, 1, 50 SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1, 1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID?

**:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID:ELIGible
bit**

Description	This command enables/disables the Virtual Local Area Network (VLAN) Identification (ID) eligible bit. At *RST condition, this value is set to OFF. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Drop Eligible Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID:ELIGiblebit <wsp><Number> , <Stacked>,[<Set>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Virtual Local Area Network (VLAN) stacked. Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification). ON,Enables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification). OFF,Disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification).

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible
bit

Response
Syntax

<Address>

Example(s)

SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1, 1, ON
SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1, 1
Returns: 1

See Also

SOURce:DATA:TELecom:ETHernet:STReam:VLAN
SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE
SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

Description	This query returns the status of Virtual Local Area Network (VLAN) Identification (ID) eligible bit. At *RST condition, this value is set to OFF. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Drop Eligible Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit? <wsp><Number>,<Stacked>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Virtual Local Area Network (VLAN) stacked.
Response Syntax	<Set>

**:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible
bit?**

Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Virtual Local Area Network (VLAN) ID eligible bit. 1, Virtual Local Area Network (VLAN) ID eligible bit is enabled. 0, Virtual Local Area Network (VLAN) ID eligible bit is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1, 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1, 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHeRnet:STReam:VLan:ID?	
Description	This query returns the Virtual Local Area Network (VLAN) Identification (ID) of the stream. At *RST condition, this value is set to 2. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > VLAN ID Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:VLan:ID? <wsp><Number>, <ID>,[<Value>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<VLAN ID>

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID?

Response(s)	VLAN ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) ID of the stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID 1, 1, 50 SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1, 1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:PRIority	
Description	This command sets the Virtual Local Area Network (VLAN) user priority. At *RST condition, this value is set to 0. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Priority Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:PRIority <wsp> <Number>, <Stacked>, <Priority>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. Priority: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) user priority. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<VLAN ID>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1, 1, 5 SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1, 1 Returns: 5
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRiority?

Description	This query returns the Virtual Local Area Network (VLAN) user priority. At *RST condition, this value is set to 0. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Priority Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRiority? <wsp> <Number>, <Stacked>,[<Value>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Priority>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRiority?

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1, 1, 5 SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1, 1 Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRiority

:SOURce:DATA:TELEcom:ETHerneT:STReam:VLAN:TYPE

Description	This command selects the type of Virtual Local Area Network (VLAN). At *RST condition, this value is set to device-dependent. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Type Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELEcom:ETHerneT:STReam:VLAN:TYPE <wsp><Number>, <Stacked>, <Vtype>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Vtype: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the VLAN type. V8100: VLAN type 8100. V88A8: VLAN type 88A8. V9100: VLAN type 9100. V9200: VLAN type 9200. V9300: VLAN type 9300.

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

Response Syntax	<Priority>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3 SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1, 1, V9100 SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1, 3 Returns: V9100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACKed SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:TYPE?

Description	This query returns the type of the Virtual Local Area Network (VLAN). At *RST condition, this value is set to device-dependent. Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Type Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:TYPE? <wsp><Number>, <Stacked>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Vtype>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?	
Response(s)	Vtype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of the VLAN. V8100, the VLAN type 8100 is selected. V88A8, the VLAN type 88A8 is selected. V9100, the VLAN type 9100 is selected. V9200, the VLAN type 9200 is selected. V9300, the VLAN type 9300 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3 SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1, 1, V9100 SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1, 1 Returns: V9100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACKed SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:FETCh:DATA:TELEcom:EOTN:ALARm:LINK?

Description	This query returns the current status of Transcoding (EoOTN) alarm. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > LINK (Transcoding)
Syntax	:FETCh:DATA:TELEcom:EOTN:ALARm:LINK? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. LOAML1027B LOBL1027B HIBER1027B: Hi-BER1027B
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ALAR:LINK? LOBL1027B
See Also	FETCh:DATA:TELEcom:PATTern:ALARm:SYNCh?

:FETCh:DATA:TELecom:ETHernet:EOTN:ALARm:LINK?	
Description	This query returns the current status of Ethernet (EoOTN) alarm. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > LINK (Ethernet)
Syntax	:FETCh:DATA:TELecom:ETHernet:EOTN:ALARm:LINK? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAR: L Fault Rcd LFAD: L Fault Det RFAult: Remote Fault
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETHernet:EOTN:ALAR:LINK? RFAULT
See Also	FETCh:DATA:TELecom:PATTErn:ALARm:SYNCh?

:SENSe:DATA:TELeom:COUPled

Description	This command enables/disables the receiver coupling. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELeom:COUPled <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the receiver coupling. ON: Enabled OFF: Disabled
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:COUP ON SENS:DATA:TEL:COUP? Returns: 1
See Also	SENSe:DATA:TELeom:PATtern:RXP:STATus ON

:SENSe:DATA:TELecom:COUPled?	
Description	This query returns the status of the receiver coupling. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:COUPled?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the coupled status of the receiver. 1, Coupled status is enabled. 0, Coupled status is disabled.
Example(s)	SENS:DATA:TEL:COUP ON SENS:DATA:TEL:COUP? Returns: 1
See Also	SENSe:DATA:TELecom:PATtern:RXP:STATus?

:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold

Description	This command sets Round-Trip Latency Threshold in milliseconds. At *RST, this value is set to 15. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Round-Trip Latency Threshold
Syntax	:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold <wsp><Threshold Value>
Parameter(s)	Threshold Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the threshold value. MAXimum: Maximum. MINimum: Minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON SOUR:DATA:TEL:FIB:STR:LAT:VERD ON SENS:DATA:TEL:FIB:RTL:THR 800.55
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE

:SENSe:DATA:TELeom:FIBer:RTLatency:THReshold?	
Description	This query returns Round-Trip Latency Threshold in milliseconds. At *RST, this value is set to 15. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Round-Trip Latency Threshold
Syntax	:SENSe:DATA:TELeom:FIBer:RTLatency:THReshold?[<wsp><Threshold Value>]
Parameter(s)	Threshold Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value is returned. MAXimum: Maximum. MINimum: Minimum.
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the round trip latency threshold value.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON SOUR:DATA:TEL:FIB:STR:LAT:VERD ON SENS:DATA:TEL:FIB:RTL:THR 800.56 SENS:DATA:TEL:FIB:RTL:THR? Returns: 800.56
See Also	SOURce:DATA:TELeom:FIBer:STReam:SIZE?

:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus

Description	This command sets the status of the RX Pattern Analysis. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - No Pattern Analysis (Live)
Syntax	:SENSe:DATA:TELecom:PATtern:RXPanalysis:STATus <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the status of the RX Pattern Analysis. ON: Enabled OFF: Disabled
Response Syntax	<Threshold>
Example(s)	SENS:DATA:TEL:PATT:RXP:STAT ON SENS:DATA:TEL:PATT:RXP:STAT? Returns: 1
See Also	SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?	
Description	This query returns the status of the RX Pattern Analysis. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - No Pattern Analysis (Live)
Syntax	:SENSe:DATA:TELEcom:PATtern:RXPanalysis:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the pattern analysis status of the receiver. 1, RX Pattern Analysis is enabled. 0, RX Pattern Analysis is disabled.
Example(s)	SENS:DATA:TEL:PATT:RXP:STAT ON SENS:DATA:TEL:PATT:RXP:STAT? Returns: 1
See Also	SENSe:DATA:TELEcom:COUPled?

:SENSe:DATA:TELeom:PATtern:TYPE

Description	This command selects test pattern type for the receiver. At *RST condition, this value is set to PRBs2E31. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELeom:PATtern:TYPE <wsp><Type>

SCPI Command Reference

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:SENSe:DATA:TELecom:PATtern:TYPE

Parameter(s)	Type:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the pattern type for the receiver.
	CJTPat: CJTPAT
	CRPat: CRPAT
	CSPat: CSPAT
	DALY: DALY Pattern
	LCRTpat: LC RTPAT
	MULTipattern: Multi-Pattern
	NCLient: NULL CLIENT
	P0000: 0000 Pattern
	P1010: 1010 Pattern
	P1100: 1100 Pattern
	P1111: 1111 Pattern
	P1IN16: 1in16 (1:15)
	P1IN8: 1in8 (1:7)
	P2IN8: 2in8
	P3IN24: 3in24
	P55Octet: 55 Octet
	PRBS2E11: PRBS11
	PRBS2E15: PRBS15
	PRBS2E20: PRBS20
	PRBS2E23: PRBS23
	PRBS2E31: PRBS31
	PRBS2E9: PRBS9
	PRBS31UNScrambled: PRBS31 Unscrambled
	QRSS: QRSS Pattern
	SCRTPat: SCRTPAT
	SEEDA: Seed A
	SEEDB: Seed B
	UPATtern: User Defined

:SENSe:DATA:TELecom:PATtern:TYPE

Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:PATT:TYPE PRBs2E15 SENS:DATA:TEL:PATT:TYPE? Returns: PRBs2E15
See Also	SENSe:DATA:TELecom:PATtern:TYPE?

:SENSe:DATA:TELecom:PATtern:TYPE:USER:VALue	
Description	This command sets the receiver user pattern value for the specified index. At *RST condition, this value is set to #H00000000. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - User Pattern
Syntax	:SENSe:DATA:TELecom:PATtern:TYPE:USER:VALue[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the receiver user pattern value for the specified index. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Set>
Example(s)	SENSe:DATA:TEL:PATT:TYPE:USER:VAL #H00000001 SENSe:DATA:TEL:PATT:TYPE:USER:VAL? Returns: 1
See Also	SENSe:DATA:TELecom:PATtern:TYPE SENSe:DATA:TELecom:PATtern:TYPE:USER:VALue?

:SENSe:DATA:TELeom:PATtern:TYPE:USER:VALue?

Description	This query returns the receiver user pattern value for the specified index. At *RST condition, this value is set to #H00000000. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - User Pattern
Syntax	:SENSe:DATA:TELeom:PATtern:TYPE:USER:VALue?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault:Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the user pattern value for the receiver.
Example(s)	SENS:DATA:TEL:PATT:TYPE:USER:VAL #H00000001 SENS:DATA:TEL:PATT:TYPE:USER:VAL? Returns: 1
See Also	SENSe:DATA:TELeom:PATtern:TYPE SENSe:DATA:TELeom:PATtern:TYPE:USER:VALue

SCPI Command Reference

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:SENSe:DATA:TELeom:PAATern:TYPE?	
Description	This query returns test pattern type for the receiver. At *RST condition, this value is set to PRBs2E31. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELeom:PAATern:TYPE?
Response Syntax	<Pattern>

:SENSe:DATA:TELecom:PATtern:TYPE?

Response(s)

Pattern:
The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
Returns the pattern type for the receiver.
PRBs2E9, pattern type PRBS9 is selected.
PRBs2E11, pattern type PRBS11 is selected.
PRBs2E15, pattern type PRBS15 is selected.
PRBs2E20, pattern type PRBS20 is selected.
PRBs2E23, pattern type PRBS23 is selected.
PRBs2E31, pattern type PRBS31 is selected.
UPATTERN, pattern type User Defined is selected.
NCLIENT, pattern type NCLIENT is selected.
PRBS31UNSCRAMBLED, pattern type PRBS31 Unscrambled is selected.
SEEDA, pattern type Seed A is selected.
SEEDB, pattern type Seed B is selected.
P1111, pattern type 1111 Pattern is selected.
P1100, pattern type 1100 Pattern is selected.
P1010, pattern type 1010 Pattern is selected.
P0000, pattern type 0000 Pattern is selected.
P1IN8, pattern type 1in8 (1:7) is selected.
P1IN16, pattern type 1in16 (1:15) is selected.
P2IN8, pattern type 2in8 is selected.
P3IN24, pattern type 3in24 is selected.
P5OCTET, pattern type 55 Octet is selected.
QRSS, pattern type QRSS is selected.
DALY, pattern type DALY is selected.
MULTIPATTERN, pattern type Multi-Pattern is selected.

Example(s)

SENS:DATA:TEL:PATT:TYPE PRBs2E15
SENS:DATA:TEL:PATT:TYPE?
Returns: PRBs2E15

See Also

SENSe:DATA:TELecom:PATtern:TYPE

:SENSe:DATA:TELecom:POLarity	
Description	This command sets the polarity pattern of the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:POLarity <wsp> <Polarity>
Parameter(s)	Polarity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the polarity pattern for the receiver. NINVerted: Non-inverted. INVerted: Inverted.
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:POL INV SENS:DATA:TEL:POL? Returns: INVerted
See Also	SENSe:DATA:TELecom:PATtern:TYPE SENSe:DATA:TELecom:PATtern:POLarity?

:SENSe:DATA:TELeom:POLarity?

Description	This query returns the polarity pattern of the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELeom:POLarity?
Response Syntax	<Polarity>
Response(s)	Polarity: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the polarity pattern of the receiver. NINVERTED, priority as non-inverted is selected. INVERTED, priority as inverted is selected.
Example(s)	SENS:DATA:TEL:POL INV SENS:DATA:TEL:POL? Returns: INVerted
See Also	SENSe:DATA:TELeom:PATtern:TYPE SENSej:DATA:TELeom:PATtern:POLarity

:SENSe:DATA:TELeom:SDT:DT	
Description	This command selects the Debounce Time (ms). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Debounce Time
Syntax	:SENSe:DATA:TELeom:SDT:DT <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the debounce time. Choices are from 0 ms to 500 ms. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Polarity>
Example(s)	SENS:DATA:TEL:SDT:DT 20
See Also	SENSe:DATA:TELeom:SDT:NTTime

:SENSe:DATA:TELecom:SDT:DT?

Description	This query returns the debounce time (ms). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Debounce Time.
Syntax	:SENSe:DATA:TELecom:SDT:DT?[<wsp> <Debounce Time>]
Parameter(s)	Debounce Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optionnal. If no token is specified, the current debounce time is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the debounce time.
Example(s)	SENS:DATA:TEL:SDT:DT?
See Also	SENSe:DATA:TELecom:SDT:NTTime?

:SENSe:DATA:TELecom:SDT:NTTime	
Description	This command selects the no Traffic time(ms) without any Traffic before stopping SDT measurement. At *RST condition, this value is set to 50. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - No Traffic Time
Syntax	:SENSe:DATA:TELecom:SDT:NTTime <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the no traffic time without any traffic before stopping SDT measurement. Choices are from 0.005ms to 1000 ms. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:SDT:NTT 18 SENS:DATA:TEL:SDT:NTT? Returns: 18
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELeom:SDT:NTTime?

Description	This query returns the no traffic time(ms) without any traffic before stopping SDT measurement. At *RST condition, this value is set to 10000. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - No Traffic Time
Syntax	:SENSe:DATA:TELeom:SDT:NTTime?[<wsp> <No Traffic Time>]
Parameter(s)	No Traffic Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current no traffic time without any traffic is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the no traffic time without any traffic before stopping SDT measurement.
Example(s)	SENS:DATA:TEL:SDT:NTT 200 SENS:DATA:TEL:SDT:NTT? Returns: 200
See Also	SENSe:DATA:TELeom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL	
Description	This command selects all lanes for further configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - All Lanes
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects all receiver lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL OFF SENS:DATA:TEL:UPRB:PATT:GLOB:ALL? Returns: 0
See Also	SENSe:DATA:TELecom:COUPled?

:SENSe:DATA:TELeom:UPRBs:PATTeRn:GLOBal:ALL?

Description	This query returns the status of all lanes for further configuration. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - All Lanes
Syntax	:SENSe:DATA:TELeom:UPRBs:PATTeRn:GLOBal:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of all lanes of the receiver. 1, All lanes of the receiver status is enabled. 0, All lanes of the receiver status is disabled.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL ON SENS:DATA:TEL:UPRB:PATT:GLOB:ALL? Returns: 1
See Also	SENSe:DATA:TELeom:COUPled

:SENSe:DATA:TELecom:UPRBs:PATTeRn:GLOBal:COUPled	
Description	This command sets the global pattern for the coupled status for the receiver. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTeRn:GLOBal:COUPled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:COUP ON SENS:DATA:TEL:UPRB:PATT:GLOB:COUP? Returns: 1
See Also	SENSe:DATA:TELecom:UPRBs:PATTeRn:GLOBal:ALL?

:SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:COUPled?

Description	This query returns the global pattern for the coupled status for the receiver. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:COUPled?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the coupled status of the receiver. 1, coupled status of the receiver is enabled. 0, coupled status of the receiver is disabled.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:COUP?
See Also	SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:ALL

:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX	
Description	This command sets the global Invert pattern for the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:POLarity:RX <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the polarity for the receiver. NINVerted: Non-Inverted INVerted: Inverted
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX INV SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX? Returns: INVerted
See Also	SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:POLarity:RX?

Description	This query returns the global Invert pattern for the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:POLarity:RX?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the polarity type of the transmitter. NINVerted, indicates Non-Inverted as the polarity. INVerted, indicates Inverted as the polarity.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX INV SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX? Returns: INVerted
See Also	SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX	
Description	This command sets the global test pattern type for the receiver. At *RST condition, this value is set to PRBS2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the test pattern for the receiver. PRBS2E9: PRBS 2 ^ 9-1. PRBS2E11: PRBS 2 ^ 11-1. PRBS2E15: PRBS 2 ^ 15-1. PRBS2E20: PRBS 2 ^ 20-1. PRBS2E23: PRBS 2 ^ 23-1. PRBS2E31: PRBS 2 ^ 31-1. PSWAVE1: PSWAVE1. PSWAVE2: PSWAVE2. PSWAVE4: PSWAVE4. PSWAVE8:PSWAVE8. PSWAVE16: PSWAVE16. PRBS31Q: PRBS31Q, PRBS13Q: PRBS13Q, PRBS9Q: PRBS9Q, SSPRQ: SSPRQ, UPATtern: User Pattern
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX PRBS2E31 SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX? Returns: PRBS2E31
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

Description	This query returns the global test pattern type for the receiver. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test pattern for the Receiver. PRBs2E9, PRBS 2 ^ 9-1 is selected. PRBs2E11, PRBS 2 ^ 11-1 is selected. PRBs2E15, PRBS 2 ^ 15-1 is selected. PRBs2E20, PRBS 2 ^ 20-1 is selected. PRBs2E23, PRBS 2 ^ 23-1 is selected. PRBs2E31, PRBS 2 ^ 31-1 is selected. PSWAVE1, PSWAVE1 is selected. PSWAVE2, PSWAVE2 is selected. PSWAVE4, PSWAVE4 is selected. PSWAVE8, PSWAVE8 is selected. PSWAVE16, PSWAVE16 is selected. PRBS31Q, PRBS31Q is selected. PRBS13Q, PRBS13Q is selected. PRBS9Q, PRBS9Q is selected. SSPRQ, SSPRQis selected.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX?
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX

Description	This command sets the Invert pattern per lane for the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX <wsp><Lane>, <Invert>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Invert: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the polarity for the receiver. NINVerted: Non-Inverted INVerted: Inverted
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:POL:RX 1, INV
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX? SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX?

Description	This query returns the Invert pattern per lane for the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX? <wsp> <Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selecs the lane number.
Response Syntax	<Invert>
Response(s)	Invert: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Invert pattern setting for the selected lane.
Example(s)	SENS:DATA:TEL:UPRB:PATT:POL:RX? 1
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:POLarity:RX SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:RX	
Description	This command sets the test pattern type for the receiver for the selected lane. At *RST condition, this value is set to PRBS2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:RX <wsp><Lane>, <Type>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the test pattern type for the receiver. PRBS2E9: PRBS 2 ^ 9-1. PRBS2E11: PRBS 2 ^ 11-1. PRBS2E15: PRBS 2 ^ 15-1. PRBS2E20: PRBS 2 ^ 20-1. PRBS2E23: PRBS 2 ^ 23-1. PRBS2E31: PRBS 2 ^ 31-1.
Response Syntax	<Invert>
Example(s)	SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX 1, PRBS2E23 SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX? 1 Returns: PRBS2E23
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:RX?

:SENSe:DATA:TELeom:UPRBs:PATtern:PRBS:TYPE:RX?

Description	This query returns the test pattern type for the transmitter for the selected lane. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - RX Pattern
Syntax	:SENSe:DATA:TELeom:UPRBs:PATtern:PRBS:TYPE:RX? <wsp> <Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test pattern type for the receiver. PRBs2E9, PRBS 2 ^ 9-1 is selected. PRBs2E11, PRBS 2 ^ 11-1 is selected. PRBs2E15, PRBS 2 ^ 15-1 is selected. PRBs2E20, PRBS 2 ^ 20-1 is selected. PRBs2E23, PRBS 2 ^ 23-1 is selected. PRBs2E31, PRBS 2 ^ 31-1 is selected. PSWAVE1, PSWAVE1 is selected. PSWAVE2, PSWAVE2 is selected. PSWAVE4, PSWAVE4 is selected. PSWAVE8, PSWAVE8 is selected. PSWAVE16, PSWAVE16 is selected.
Example(s)	SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX? 1
See Also	SENSe:DATA:TELeom:UPRBs:PATtern:GLOBal:POLarity:RX

:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:VERDict:DISable	
Description	This command disables Pass/Fail Verdict in Unframed Bert. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:VERDict:DISable
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:THR:VERD:DIS

:SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE

Description	This command enables/disables the pass/fail verdict. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > BERT > OBSAI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VERD:ENAB ON
See Also	SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE?

:SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE?	
Description	This query returns the enable/disable verdict status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > BERT > OBSAI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VERD:ENAB?
See Also	SOURce:DATA:TELeom:CPRI:OBSai:VERDict:ENABLE

:SOURce:DATA:TELeom:CPRI:VERDict:ENABLE

Description	This command sets status of CPRI Threshold Enable/Disable. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > BERT > CPRI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:CPRI:VERDict:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:VERD:ENAB ON
See Also	SOURce:DATA:TELeom:CPRI:VERDict:ENABLE?

:SOURce:DATA:TELeom:CPRI:VERDict:ENABle?	
Description	This Query returns status of CPRI Threshold. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > BERT > CPRI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:CPRI:VERDict:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:VERDict:ENAB?
See Also	SOURce:DATA:TELeom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE

Description	This command selects the Latency Mode. At *RST condition, this value is set to Round-Trip. Navigation Path: Setup > Test Configuration > EtherBERT > Latency > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Latency Mode ROUNDTRIP: Round-Trip ONEWay: One-Way P<m> <-> P<n>, where m = FIRST port and n = SECOND port
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:LAT:MODE ONEW SOUR:DATA:TEL:ETH:STR:LAT:MODE? Returns: ONEWay
See Also	SOURce:DATA:TELecom:PORT

:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE?	
Description	This query returns the Latency Mode. At *RST condition, this value is set to Round-Trip. Navigation Path: Setup > Test Configuration > EtherBERT > Latency > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Latency Mode. ROUNDTRIP: Round-Trip ONEWay: One-Way P<m> <-> P<n>, where m = FIRST port and n = SECOND port
Example(s)	SOUR:DATA:TEL:ETH:STR:LAT:MODE ONEW SOUR:DATA:TEL:ETH:STR:LAT:MODE? Returns: ONEWay
See Also	SOURce:DATA:TELecom:PORT?

:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:LATency:ENABle

Description	This command enables/disables QoS metrics Latency measurement. At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Enable
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:LATency:ENABle <wsp> <Latency Measurement Enable>
Parameter(s)	Latency Measurement Enable: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ON SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:LATency:STATus

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:ENABLE?	
Description	This query returns status of QoS metrics Latency measurement At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Enabled
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Latency measurement status. 1, Latency measurement is enabled. 0, Latency measurement is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ON SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus?

:SOURce:DATA:TELecom:ETHernet:STReam:RATE

Description This command sets the transmitter payload rate for the selected traffic payload type.
At *RST condition, this value is set to 100%.
Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - TX Rate

Syntax :SOURce:DATA:TELecom:ETHernet:STReam:RATE <wsp> <Rate>

Parameter(s) **Rate:**
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the rate.
MAXimum: Biggest supported value.
MINimum: Smallest supported value.
DEFault: Default value.

Response Syntax <Status>

Example(s) SOUR:DATA:TEL:ETH:STR:RATE 56666
SOUR:DATA:TEL:ETH:STR:RATE?
Returns: 56666

See Also SOURce:DATA:TELecom:ETHernet:STReam:RATE?
SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:NFRame

:SOURce:DATA:TELEcom:ETHernet:STReam:RATE?	
Description	This query returns the transmitter payload rate for the selected traffic payload type. At *RST condition, this value is set to 100%. Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:RATE?[<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the stream rate for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:RATE 56666 SOUR:DATA:TEL:ETH:STR:RATE? Returns: 56666
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus

Description	This command enables/disable the transmitter. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the transmitter status. ON: Enabled OFF: Disabled
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:STR:TX:STAT ON SOUR:DATA:TEL:ETH:STR:TX:STAT? Returns: 1
See Also	SOURce:DATA:TELcom:ETHernet:STReam:TX:STATus

:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STATus?	
Description	This query returns the transmitter status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TX:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the transmitter status. 1, Transmitter is enabled. 0, Transmitter is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:TX:STAT ON SOUR:DATA:TEL:ETH:STR:TX:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TX:STATus?

:SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier

Description	Selects the Client Identifier used by all subsequent client related commands or queries. Needs to be part of the currently configured client into the FlexE calendar. At *RST condition, this value is set to 0 (Invalid Client ID).
Syntax	:SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier <wsp><Client Id>
Parameter(s)	Client Id: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selected Client Identifier
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FETH:CLI:ID 1 SOUR:DATA:TEL:FETH:CLI:ID? Returns: 1
See Also	SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier?

:SOURce:DATA:TELecom:FETHernet:CLlent:IDentifier?	
Description	Returns the Client Identifier used by all subsequent client related commands or queries. At *RST condition, this value is set to 0 (Invalid Client ID)
Syntax	:SOURce:DATA:TELecom:FETHernet:CLlent:IDentifier?
Response Syntax	<Client Id>
Response(s)	Client Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Selected Client Identifier
Example(s)	SOUR:DATA:TEL:FETH:CLI:ID 1 SOUR:DATA:TEL:FETH:CLI:ID? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:CLlent:IDentifier

**:SOURce:DATA:TELecom:FETHernet:PATtern:CLient:IDentifie
r**

Description	Selects the Client Identifier associated with Pattern. At *RST condition, this value is set to 1 (Default Client ID). Navigation Path: Setup > Test Configurator > Clients > BERT > Pattern on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:PATtern:CLient:IDentifier <wsp><Client ID>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects Client Identifier.
Response Syntax	<Client Id>
Example(s)	SOUR:DATA:TEL:FETH:PATT:CLI:ID 2 SOUR:DATA:TEL:FETH:PATT:CLI:ID? Returns: 2

:SOURce:DATA:TELecom:FETHernet:PATtern:CLient:IDentifier?	
Description	Returns the Client Identifier Selected for Pattern. At *RST condition, this value is set to 1 (Default Client ID). Navigation Path: Setup > Test Configurator > Clients > BERT > Pattern on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:PATtern:CLient:IDentifier?
Response Syntax	<Client ID>
Response(s)	Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Client Identifier.
Example(s)	SOUR:DATA:TEL:FETH:PATT:CLI:ID 2 SOUR:DATA:TEL:FETH:PATT:CLI:ID? Returns: 2

:SOURce:DATA:TELEcom:FIBer:STReam:LATency

Description	This command enables/disables the latency tags status. At *RST, this value is set to ON. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Latency Tags
Syntax	:SOURce:DATA:TELEcom:FIBer:STReam:LATency <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
See Also	SOURce:DATA:TELEcom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELEcom:FIBer:STReam:LATency:VERDict	
Description	This command sets the Pass/Fail Verdict for the instrument. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELEcom:FIBer:STReam:LATency:VERDict <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON SOUR:DATA:TEL:FIB:STR:LAT:VERD ON
See Also	SOURce:DATA:TELEcom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELeom:FIBer:STReam:LATency:VERDict?

Description	This query returns the Pass/Fail Verdict for the instrument. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:FIBer:STReam:LATency:VERDict?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Pass/Failed Verdict status. 1 - Pass/Failed Verdict status is enabled. 0 - Pass/Failed Verdict status is disabled.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON SOUR:DATA:TEL:FIB:STR:LAT:VERD ON SOUR:DATA:TEL:FIB:STR:LAT:VERD? Returns: 1
See Also	SOURce:DATA:TELeom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELEcom:FIBer:STReam:LATency?	
Description	This query returns the latency tags status. At *RST, this value is set to ON. Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Latency Tags
Syntax	:SOURce:DATA:TELEcom:FIBer:STReam:LATency?
Response Syntax	<Bbcredit>
Response(s)	Bbcredit: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Latency tags status. 1 - Latency tags is enabled. 0 - Latency tags is disabled.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON SOUR:DATA:TEL:FIB:STR:LAT? Returns: 1
See Also	SOURce:DATA:TELEcom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELEcom:FIBer:STReam:RATE

Description	This command sets the maximum bandwidth rate for fibre channel stream (%). At *RST, this value is set to 100. Navigation Path: Setup > Test Configurator > FC BERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELEcom:FIBer:STReam:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate in percentage. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:STR:RATE 100
See Also	SOURce:DATA:TELEcom:FIBer:STReam:SIZE

:SOURce:DATA:TELecom:FIBer:STReam:RATE?	
Description	This query returns the maximum bandwidth rate for fibre channel stream (%). At *RST, this value is set to 100. Navigation Path: Setup > Test Configurator > FC BERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum bandwidth rate for fibre channel stream.
Example(s)	SOUR:DATA:TEL:FIB:STR:RATE 100 SOUR:DATA:TEL:FIB:STR:RATE? Returns: 100
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE?

:SOURce:DATA:TELecom:FIBer:STReam:SIZE

Description	This command sets the frame size for fibre channel network (Bytes). At *RST, this value is set to 2148. Navigation Path: Setup > Test Configurator > FC BERT > FC Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:SIZE <wsp><Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame size for fibre channel network. Choices are 32 through 2148. MAXimum: Maximum. MINimum: Minimum.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FIB:STR:SIZE 128
See Also	SOURce:DATA:TELecom:FIBer:STReam:RATE

:SOURce:DATA:TELeom:FIBer:STReam:SIZE?	
Description	This query returns the frame size for fibre channel network (Bytes). At *RST, this value is set to 2148. Navigation Path: Setup > Test Configurator > FC BERT > FC Frame - Frame Size
Syntax	:SOURce:DATA:TELeom:FIBer:STReam:SIZE?[<wsp><Size>]
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value will be returned. MAXimum: Maximum. MINimum: Minimum.
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame size for fibre channel network.
Example(s)	SOUR:DATA:TEL:FIB:STR:SIZE 128 SOUR:DATA:TEL:FIB:STR:SIZE? Returns: 128
See Also	SOURce:DATA:TELeom:FIBer:STReam:RATE?

:SOURce:DATA:TELeom:PAThern:TYPE

Description	This command sets the test pattern type for the transmitter. At *RST condition, this value is set to PRBs2E31. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELeom:PAThern:TYPE <wsp><Type>

:SOURce:DATA:TELecom:PATtern:TYPE	
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the pattern type for the transmitter. CJTPat: CJTPAT CRPat: CRPAT CSPat: CSPAT DALY: DALY Pattern LCRTpat: LC RTPAT MULTipattern: Multi-Pattern NCLient: NULL CLIENT P0000: 0000 Pattern P1010: 1010 Pattern P1100: 1100 Pattern P1111: 1111 Pattern P1IN16: 1in16 (1:15) P1IN8: 1in8 (1:7) P2IN8: 2in8 P2E6: P2E6 P3iN24: 3in24 P55Octet: 55 Octet PRBS2E11: PRBS11 PRBS2E15: PRBS15 PRBS2E20: PRBS20 PRBS2E23: PRBS23 PRBS2E31: PRBS31 PRBS2E9: PRBS9 PRBS31UNScrambled: PRBS31 Unscrambled QRSS: QRSS SCRTpat: SC RTPAT SEEDA: Seed A SEEDB: Seed B UPATtern: User Defined

:SOURce:DATA:TELecom:PATtern:TYPE

Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:PATT:TYPE PRBs2E15 SOUR:DATA:TEL:PATT:TYPE? Returns: PRBs2E15
See Also	SOURce:DATA:TELecom:PATtern:TYPE?

:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue	
Description	This command sets the transmitter user pattern value for the specified index. At *RST condition, this value is set to #H00000000. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - User Pattern
Syntax	:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the transmitter user pattern value for the specified index.
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:PATT:TYPE:USER:VAL #H00000001 SOUR:DATA:TEL:PATT:TYPE:USER:VAL? Returns: 1
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue?

:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue?

Description	This query returns the transmitter user pattern value for the specified index. At *RST condition, this value is set to #H00000000. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - User Pattern
Syntax	:SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the user pattern value for the transmitter.
Example(s)	SOUR:DATA:TEL:PATT:TYPE:USER:VAL #H00000001 SOUR:DATA:TEL:PATT:TYPE:USER:VAL? Returns: 1
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue

SCPI Command Reference

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:SOURce:DATA:TELeom:PATtern:TYPE?	
Description	This query returns the test pattern type for transmitter. At *RST condition, this value is set to PRBs2E31. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELeom:PATtern:TYPE?
Response Syntax	<Pattern>

:SOURce:DATA:TELecom:PATtern:TYPE?

Response(s)

Pattern:
The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
Returns the pattern type for the transmitter.
PRBs2E9, pattern type PRBS9 is selected.
PRBs2E11, pattern type PRBS11 is selected.
PRBs2E15, pattern type PRBS15 is selected.
PRBs2E20, pattern type PRBS20 is selected.
PRBs2E23, pattern type PRBS23 is selected.
PRBs2E31, pattern type PRBS31 is selected.
UPATTERN, pattern type User Defined is selected.
NCLIENT, pattern type NCLIENT is selected.
PRBS31UNSCRAMBLED, pattern type PRBS31 Unscrambled is selected.
SEEDA, pattern type Seed A is selected.
SEEDB, pattern type Seed B is selected.
P1111, pattern type 1111 Pattern is selected.
P1100, pattern type 1100 Pattern is selected.
P1010, pattern type 1010 Pattern is selected.
P0000, pattern type 0000 Pattern is selected.
P1IN8, pattern type 1in8 (1:7) is selected.
P1IN16, pattern type 1in16 (1:15) is selected.
P2IN8, pattern type 2in8 is selected.
P3IN24, pattern type 3in24 is selected.
P5OCTET, pattern type 55 Octet is selected.
QRSS, pattern type QRSS is selected.
DALY, pattern type DALY is selected.
MULTIPATTERN, pattern type Multi-Pattern is selected.

Example(s)

SOUR:DATA:TEL:PATT:TYPE PRBs2E15
SOUR:DATA:TEL:PATT:TYPE?
Returns: PRBs2E15

See Also

SOURce:DATA:TELecom:PATtern:TYPE

:SOURce:DATA:TELEcom:POLarity	
Description	This command sets the polarity pattern for the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELEcom:POLarity <wsp><Polarity>
Parameter(s)	Polarity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transmitter polarity. NINVerted: Non-inverted. INVerted: Inverted.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:POL INV SOUR:DATA:TEL:POL? Returns: INVerted
See Also	SOURce:DATA:TELEcom:PATtern:TYPE? SOURce:DATA:TELEcom:POLarity?

:SOURce:DATA:TELecom:POLarity?

Description	This query returns the polarity pattern of the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:POLarity?
Response Syntax	<Polarity>
Response(s)	Polarity: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the transmitter polarity pattern for specific stream. NINVerted, indicates the polarity as non-inverted. INVerted, indicates the polarity as inverted.
Example(s)	SOUR:DATA:TEL:POL INV SOUR:DATA:TEL:POL? Returns: INVerted
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:POLarity

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX	
Description	This command sets the global polarity pattern for the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the polarity for the transmitter. NINVerted: Non-Inverted INVerted: Inverted
Response Syntax	<Polarity>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX INV SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX? Returns: INVerted
See Also	SOURce:DATA:TELecom:PATtern:TYPE? SOURce:DATA:TELecom:POLarity?

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX?

Description	This query returns the global polarity pattern for the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:POLarity:TX?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the polarity type of the transmitter. NINVerted, indicates Non-Inverted as the polarity. INVerted, indicates Inverted as the polarity.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX INV SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX? Returns: INVerted
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:POLarity

:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:T X	
Description	This command sets the global test pattern type for the Transmitter. At *RST condition, this value is set to PRBS2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the test pattern for the transmitter. PRBS2E9: PRBS 2 ^ 9-1 PRBS2E11: PRBS 2 ^ 11-1 PRBS2E15: PRBS 2 ^ 15-1 PRBS2E20: PRBS 2 ^ 20-1 PRBS2E23: PRBS 2 ^ 23-1 PRBS2E31: PRBS 2 ^ 31-1 PSWAVE1: PSWAVE1 PSWAVE2: PSWAVE2 PSWAVE4: PSWAVE4 PSWAVE8: PSWAVE8 PSWAVE16: PSWAVE16 PRBS31Q: PRBS31Q PRBS13Q: PRBS13Q PRBS9Q: PRBS9Q SSPRQ: SSPRQ UPATtern: User Pattern
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX PRBS2E23 SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX? Returns: PRBS2E23
See Also	SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX

:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?

Description	This query returns the global test pattern type for the Transmitter. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:TX?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test pattern for the Transmitter. PRBs2E9, PRBS 2 ^ 9-1 is selected. PRBs2E11, PRBS 2 ^ 11-1 is selected. PRBs2E15, PRBS 2 ^ 15-1 is selected. PRBs2E20, PRBS 2 ^ 20-1 is selected. PRBs2E23, PRBS 2 ^ 23-1 is selected. PRBs2E31, PRBS 2 ^ 31-1 is selected. PSWAVE1, PSWAVE1 is selected. PSWAVE2, PSWAVE2 is selected. PSWAVE4, PSWAVE4 is selected. PSWAVE8, PSWAVE8 is selected. PSWAVE16, PSWAVE16 is selected. PRBS31Q, PRBS31Q is selected. PRBS13Q, PRBS13Q is selected. PRBS9Q, PRBS9Q is selected. SSPRQ, SSPRQ is selected. UPATtern, User Pattern is selected
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX?
See Also	SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:PRBS:TYPE:RX?

SCPI Command Reference

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX	
Description	This command sets the Invert pattern per lane for the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX <wsp><Lane>, <Invert>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Invert: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the polarity for the transmitter. NINVerted: Non-Inverted INVerted: Inverted
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:POL:TX 1, INV
See Also	SOURce:DATA:TELEcom:UPRBs:PATtern:POLarity:TX? SENSe:DATA:TELEcom:UPRBs:PATtern:GLOBal:ALL

:SOURce:DATA:TELecom:UPRBs:PATtern:POLarity:TX?

Description	This query returns the Invert pattern per lane for the transmitter. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:POLarity:TX? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Invert>
Response(s)	Invert: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Invert pattern setting for the selected lane.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:POL:TX? 1
See Also	SOURce:DATA:TELecom:UPRBs:PATtern:POLarity:TX SENSe:DATA:TELecom:UPRBs:PATtern:GLOBal:ALL

:SOURce:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:TX	
Description	This command sets the test pattern type for the transmitter for the selected lane. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:TX <wsp><Lane>, <Type>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the test pattern type for the transmitter. PRBS2E9: PRBS 2 ^ 9-1. PRBS2E11: PRBS 2 ^ 11-1. PRBS2E15: PRBS 2 ^ 15-1. PRBS2E20: PRBS 2 ^ 20-1. PRBS2E23: PRBS 2 ^ 23-1. PRBS2E31: PRBS 2 ^ 31-1. PSWAVE1: PSWAVE1. PSWAVE2: PSWAVE2. PSWAVE4: PSWAVE4. PSWAVE8: PSWAVE8. PSWAVE16: PSWAVE16.
Response Syntax	<Invert>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX 1, PRBs2E23 SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX? 1 Returns: PRBs2E23
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue?

:SOURce:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:TX?

Description	This query returns the test pattern type for the transmitter for the selected lane. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATtern:PRBS:TYPE:TX? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test pattern type for the transmitter for the selected traffic stream. PRBs2E9, PRBS 2 ^ 9-1 is selected. PRBs2E11, PRBS 2 ^ 11-1 is selected. PRBs2E15, PRBS 2 ^ 15-1 is selected. PRBs2E20, PRBS 2 ^ 20-1 is selected. PRBs2E23, PRBS 2 ^ 23-1 is selected. PRBs2E31, PRBS 2 ^ 31-1 is selected. PSWAVE1, PSWAVE1 is selected. PSWAVE2, PSWAVE2 is selected. PSWAVE4, PSWAVE4 is selected. PSWAVE8, PSWAVE8 is selected. PSWAVE16, PSWAVE16 is selected.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX? 1
See Also	SOURce:DATA:TELecom:PATtern:TYPE SOURce:DATA:TELecom:PATtern:TYPE:USER:VALue

RFC 2544 - Global

:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:MINtime?	
Description	This query returns the minimum time for the back-to-back subtest required to run in best condition. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Estimated Time
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:MINtime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:MIN?
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABLE

:FETCh:DATA:TELecom:ETHernet:RFC:FLOs:MINtime?

Description	This query returns the minimum time the Frame Loss subtest is required to run in best condition. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOs:MINtime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOs:ENABle

:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:MINtime?	
Description	This query returns the minimum time the latency subtest is required to run in best condition. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Estimated Time
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:LATency:MINtime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:MIN?
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:LATency:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:MINtime?

Description	This query returns the minimum time the throughput subtest is required to run in best condition. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:MINtime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum time the test is required to run in best condition.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughut:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:TOTal:MINtime?	
Description	This query returns the total time the test is required to run in best condition. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Total - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TOTal:MINtime?
Response Syntax	<Total Time>
Response(s)	Total Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the total time the test is required to run in best condition.
Example(s)	FETC:DATA:TEL:ETH:RFC:TOT:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:MINtime?

:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABLEd

Description	This command enables/disables Dual Test Set. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Dual Test Set > Dual Test Set Navigation Path: Setup > Test Configurator > EtherSAM > Global > Dual Test Set > Dual Test Set
Syntax	:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABLEd <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Total Time>
Example(s)	SOUR:DATA:TEL:ETH:DUAL:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:CONNection?

:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABled?	
Description	This query returns the enable/disable Dual Test Set status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Dual Test Set > Dual Test Set Navigation Path: Setup > Test Configurator > EtherSAM > Global > Dual Test Set > Dual Test Set
Syntax	:SOURce:DATA:TELEcom:ETHernet:DUALtest:ENABled?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:DUAL:ENAB ON SOUR:DATA:TEL:ETH:DUAL:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:REMOte:CONNection

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABLE

Description	This command enables/disables the selected back-to-back subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Subtests
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB ON SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:ENABLE SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:ENABLE?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABLE?	
Description	This query returns the status of the back-to-back subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB ON SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABLE SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABLE?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection

Description	This command sets the Flow Direction At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global Options - Flow Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Flow direction TXTORX: TX To RX P1TOP2: Port #1 To Port #2 P2TOP1: Port #2 To Port #1 FBIDIRECT: Bidirectional LTORemote: Local To Remote RTOLocal: Remote To Local
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:RFC:FDIRection TXTORX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX

:SOURce:DATA:TELEcom:ETHernet:RFC:FDIRection?

Description	This query returns the Flow Direction At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Global Options - Flow Direction
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:FDIRection?
Response Syntax	<direction>
Response(s)	direction: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Flow direction
Example(s)	SOURce:DATA:TELEcom:ETHernet:RFC:FDIRection?
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:LATency:FCOunt:TX?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib

Description	This command selects frame size distribution from the list. At *RST condition, this value is set to RFC2544. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Distribution
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib <wsp><Distribution>
Parameter(s)	Distribution: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects frame size distribution from the list. RFC2544: RFC2544 UDEFineD: User Defined
Response Syntax	<direction>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF SOUR:DATA:TEL:ETH:RFC:FDIS? Returns: UDEFineD
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib?	
Description	This query returns the frame size distribution from the list. At *RST condition, this value is set to RFC2544. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Distribution
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib?
Response Syntax	<Distribution>
Response(s)	Distribution: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the frame size distribution from the list. RFC2544, RFC2544 is returned as frame size distribution. UDEFined, User Defined (UDEFined) is returned as frame size distribution.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS RFC2544 SOUR:DATA:TEL:ETH:RFC:FDIS? Returns: RFC2544
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOsS:ENABle

Description	This command enables/disables the selected Frame Loss subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Subtests
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:FLOsS:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Distribution>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB ON SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABle SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOsS:ENABle?	
Description	This query returns the status of the Frame Loss subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOsS:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB ON SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

Description	This command sets the predefined frame size distribution values for RFC 2544 distribution. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe <wsp><Quantity>, <Size>
Parameter(s)	Quantity: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the quantity of frame size. Size: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the predefined frame size distribution value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF SOUR:DATA:TEL:ETH:RFC:QUAN 1 SOUR:DATA:TEL:ETH:RFC:FSIZ 1, 69 SOUR:DATA:TEL:ETH:RFC:FSIZ? 1 Returns: 69
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity

:SOURce:DATA:TELeom:ETHernet:RFC:FSIZe?	
Description	This query returns the predefined frame size distribution values for RFC 2544 distribution. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Size
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:FSIZe? <wsp><Quantity>,[<Size>]
Parameter(s)	Quantity: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the quantity of frame size. Size: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current predefined frame size distribution is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Fsize>
Response(s)	Fsize: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the predefined frame size distribution values.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF SOUR:DATA:TEL:ETH:RFC:QUAN 1 SOUR:DATA:TEL:ETH:RFC:FSIZ 1, 65 SOUR:DATA:TEL:ETH:RFC:FSIZ? 1 Returns: 65
See Also	SOURce:DATA:TELeom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELecom:ETHerNet:RFC:LATency:ENABle

Description	This command enables/disables the latency subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Subtests
Syntax	:SOURce:DATA:TELecom:ETHerNet:RFC:LATency:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Fsize>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB ON SOUR:DATA:TEL:ETH:RFC:LAT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHerNet:RFC:BCKTobck:ENABle

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABLE?	
Description	This query returns the status of the latency subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB ON SOUR:DATA:TEL:ETH:RFC:LAT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:RFC:QUANtity

Description	This command selects quantity of frame size to be used for the test. At *RST condition, this value is set to 7. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Quantity
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:QUANtity <wsp> <Quantity>
Parameter(s)	Quantity: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects quantity of frame size.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:QUAN 7 SOUR:DATA:TEL:ETH:RFC:QUAN? Returns: 7
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FDIStribution SOURce:DATA:TELEcom:ETHernet:RFC:FDIStribution?

:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?	
Description	This query returns the quantity of frame size used for the test. At *RST condition, this value is set to 7. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?
Response Syntax	<Quantity>
Response(s)	Quantity: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the quantity of frame size.
Example(s)	SOUR:DATA:TEL:ETH:RFC:QUAN 7 SOUR:DATA:TEL:ETH:RFC:QUAN? Returns: 7
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution?

:SOURce:DATA:TELecom:ETHernet:RFC:RESTore

Description	This command restores the default CONFig for RFC Frame Sizes. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Restore RFC 2544 Defaults
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:RESTore
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REST
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:ENABLE	
Description	This command enables/disables the selected RFC 2544 throughput subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Subtests
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ENAB ON SOUR:DATA:TEL:ETH:RFC:THR:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:VALidations

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?

Description	This query returns the status of the selected throughput subtest. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ENAB ON SOUR:DATA:TEL:ETH:RFC:THR:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Smart Loopback

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MATChing:MAC:ADDRess:MODE?	
Description	This query returns the MAC address of Smart Loopback application. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Matching & Swapping - MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLOopback:MATChing:MAC:ADDRess:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MATC:MAC:ADDR:MODE?
See Also	SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE?

**:SOURce:DATA:TELeom:ETHernet:SLOopback:MATChing:UD
P:PORT:MODE?**

Description	This query returns the UDP/TCP port value of Smart Loopback application. At *RST condition, this value is set to All. Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Matching & Swapping - UDP/TCP Port
Syntax	:SOURce:DATA:TELeom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the UDP port mode.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MATC:UDP:PORT:MODE?
See Also	SOURce:DATA:TELeom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE	
Description	This command selects the mode for Smart Loopback application. At *RST condition, this value is set to UDP. Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the loopback mode for the smart loopback application. UDPTCP, UDP mode is selected. IP, IP mode is selected. ETHernet, Ethernet mode is selected. EAUNicast, Ethernet all unicast mode is selected.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:SLO:MODE IP
See Also	SOURce:DATA:TELEcom:ETHernet:SLOopback:MATCHing:UDP:PORT:MODE?

:SOURce:DATA:TELeom:ETHerneT:SLOopback:MODE?

Description	This query returns the selected mode for Smart Loopback application. At *RST condition, this value is set to UDP. Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Mode
Syntax	:SOURce:DATA:TELeom:ETHerneT:SLOopback:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the loopback mode. IP, IP mode is selected. UDPTCP, UDP mode is selected. ETHERNET, Ethernet mode is selected. EAUNICAST, Ethernet all unicast mode is selected.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MODE IP SOUR:DATA:TEL:ETH:SLO:MODE? Returns: IP
See Also	SOURce:DATA:TELeom:ETHerneT:SLOopback:MATCHing:UDP:PORT:MODE?

BERT

:FETCh:DATA:TELEcom:PATtern:ALARm:SYNC?	
Description	This query returns the Sync status of pattern alarm for the selected lane. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Unframed BERT > Sync
Syntax	:FETCh:DATA:TELEcom:PATtern:ALARm:SYNC? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane of pattern alarm.
Response Syntax	<Sync>
Response(s)	Sync: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Synch status of the pattern alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:PATT:ALAR:SYNC? 1
See Also	FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?

Description	This query returns the Globally Sync status of the pattern alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Unframed BERT > Sync
Syntax	:FETCh:DATA:TELEcom:PATtern:GLOBal:ALARm:SYNC?
Response Syntax	<Sync>
Response(s)	Sync: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Globally Synch status of the pattern alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:PATT:GLOB:ALAR:SYNC?
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:SYNC?

:SENSe:DATA:TELecom:PATtern:THReshold:COUnT	
Description	This command selects the Pass/Fail Verdict as Bit Error Count and sets the BER Threshold count value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count) Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
Syntax	:SENSe:DATA:TELecom:PATtern:THReshold:COUnT <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Pattern Threshold Count Value. Choices are 0 to 999999 MAXimum: Biggest supported count MINimum: Smallest supported count DEFault: Default value
Response Syntax	<Sync>
Example(s)	SENS:DATA:TEL:PATtern:THReshold:COUn 1000 SENS:DATA:TEL:PATtern:THReshold:COUn? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime?

:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?

Description	This query returns the BER Threshold count value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count) Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
Syntax	:SENSe:DATA:TELEcom:PATtern:THReshold:COUNt?[<wsp> <Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the Pattern Threshold Count Value is returned. MAXimum: Biggest count MINimum: Smallest count DEFault: Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pattern Threshold Count.
Example(s)	SENS:DATA:TEL:PATtern:THReshold:COUN 1000 SENS:DATA:TEL:PATtern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELEcom:SDT:NDTime

:SENSe:DATA:TELecom:PATtern:THReshold:RATE	
Description	This command selects the Pass/Fail Verdict as Bit Error Rate and sets the BER Threshold rate value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Rate) Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Rate)
Syntax	:SENSe:DATA:TELecom:PATtern:THReshold:RATE <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Pattern threshold rate. Choices are 1.0E-14 through 1.9E-01 MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default rate
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:PATtern:THReshold:RATE 1.0E-12 SENS:DATA:TEL:PATtern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATtern:THReshold:COUNt?

:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?

Description	This query returns BER Threshold rate value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Bit Error - BER Threshold (Rate) Navigation Path: Setup > Test Configurator >Clients > BERT > Bit Error - BER Threshold (Rate)
Syntax	:SENSe:DATA:TELEcom:PATtern:THReshold:RATE?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the Pattern threshold rate is returned. MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default rate
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the pattern BER Threshold rate.
Example(s)	SENS:DATA:TEL:PATtern:THReshold:RATE 1.0E-12 SENS:DATA:TEL:PATtern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELEcom:SDT:PATtern:THReshold:COUNt

:SENSe:DATA:TELecom:SDT	
Description	This command enables/disables the disruption time measurements. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Disruption Monitoring
Syntax	:SENSe:DATA:TELecom:SDT <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDT ON SENS:DATA:TEL:SDT? Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE SENSe:DATA:TELecom:SDT:OTN:DSElection

:SENSe:DATA:TELecom:SDT:NDTime

Description	This command selects the no defect time(ms) without any defects before stopping SDT measurement. At *RST condition, this value is set to 300 ms. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - No Defect Time
Syntax	:SENSe:DATA:TELecom:SDT:NDTime <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the no defect time without any defects before stopping SDT measurement.Choices are from 0.005ms to 2000 ms. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default Value
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDT:NDT 18 SENS:DATA:TEL:SDT:NDT? Returns: 18
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:NDTime?	
Description	This query returns the no defect time(ms) without any defects before stopping SDT measurement. At *RST condition, thisthis value is set to 300 ms. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - No Defect Time
Syntax	:SENSe:DATA:TELecom:SDT:NDTime?[<wsp><No Defect Time>]
Parameter(s)	No Defect Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional.If no token is specified, the current no defect time without any defects is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the no defect time without any defects before stopping SDT measurement.
Example(s)	SENS:DATA:TEL:SDT:NDT 200 SENS:DATA:TEL:SDT:NDT? Returns: 200
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELeom:SDT:OTN:DSElection

Description	This command selects the defect of selected layer. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELeom:SDT:OTN:DSElection <wsp><Selection>
Parameter(s)	Selection: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the defect: AISL, AISP, AISV, AUOp, B1, B2, B3, BIP2, BITerror, BPV, CBIT, CRC6, DS1AIS, DS1OOF, DS3AIS, DS3OOF, E1AIS, E1CRC4, E1EBIT, E1FAS, E1LOF, E1RAI, E2AIS, E2FAS, E2LOF, E2RAI, E3AIS, E3FAS, E3LOF, E3RAI, E4AIS, E4FAS, E4LOF, E4RAI, EPCD, EPPD, EPSD, EVCD, EVPD, EVSD, EXZ, FAS, FBIT, FCCW, FEBE, FRAMingbit, FUCW, HOPTCMBIP, HOPTCMIAIS, HOPTCMIEC, HOPTCMLTC, HOPTCMODI, HOPTCMOEI, HOPTCMRDI, HOPTCMREI, HOPTCMTIM, HOPTCMUNEQ, HOPTCMVIOL, HPRei, HPUNEQ, IDLE, LOFLom, LOM, LOMF, LOPPLM, LOPTCMBIP, LOPTCMIAIS, LOPTCMIEC, LOPTCMLTC, LOPTCMODI, LOPTCMOEI, LOPTCMRDI, LOPTCMREI, LOPTCMTIM, LOPTCMUNEQ, LOPTCMVIOL, LOPTIM, LOPUNEQ, LOSE, LOSO, LPRDi, LPRei, LPRFi, MFAS, OAIS, OBDI, OBEI, OBlae, OBIP8, OBSD, OBSF, ODAis, ODBDi, ODBei, ODBIP8, OFSD, OFSF, OIAe, OLCK, OLOF, OLOM, OMSim, OOCI, OOM, OOO, OPUAIS, OPUCSF, OPULOOMFI, OPUOMFI, OPUOOMFI, OPUPLM, OTLFAS, OTLINVMaKer, OTLLOF, OTLLOL, OTLLOR, OTLOOF, OTLOOR, PBIT, PDIP, PLM, PLOSS, RAI, RAIMf, RDI, RDIL, RDIP, REIL, REIP, RFAS, RLOF, SEF, TS16AIS, TU3AIS, TU3B3, TU3LOM, TU3LOP, TU3PCD, TU3PDI, TU3PLM, TU3PPD, TU3PSD, TU3RDI, TU3REI, TU3TCMBIP, TU3TCMIAIS, TU3TCMIEC, TU3TCMLTC, TU3TCMODI, TU3TCMOEI, TU3TCMRDI, TU3TCMREI, TU3TCMTIM, TU3TCMUNEQ, TU3TCMVIOL, TU3TIM, TU3UNEQ, TULop

:SENSe:DATA:TELecom:SDT:OTN:DSELection	
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:SDT:OTN:DSEL BITERROR SENS:DATA:TEL:SDT:OTN:DSEL? Returns: BITERROR
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELeom:SDT:OTN:DSElection?

Description	This query returns the defect for selected layer. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELeom:SDT:OTN:DSElection?
Response Syntax	<Selection>

:SENSe:DATA:TELecom:SDT:OTN:DSELection?	
Response(s)	Selection: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the defect: AISL, AISP, AISV, AULop, B1, B2, B3, BIP2, BITerror, BPV, CBIT, CRC6, DS1AIS, DS1OOF, DS3AIS, DS3OOF, E1AIS, E1CRC4, E1EBIT, E1FAS, E1LOF, E1RAI, E2AIS, E2FAS, E2LOF, E2RAI, E3AIS, E3FAS, E3LOF, E3RAI, E4AIS, E4FAS, E4LOF, E4RAI, EPCD, EPPD, EPSD, EVCD, EVPD, EVSD, EXZ, FAS, FBIT, FCCW, FEBE, FRAMingbit, FUCW, HOPTCMBIP, HOPTCMIAIS, HOPTCMIEC, HOPTCMLTC, HOPTCMODI, HOPTCMOEI, HOPTCMRDI, HOPTCMREI, HOPTCMTIM, HOPTCMUNEQ, HOPTCMVIOL, HPRai, HPUNEQ, IDLE, LOFLom, LOM, LOMF, LOPPLM, LOPTCMBIP, LOPTCMIAIS, LOPTCMIEC, LOPTCMLTC, LOPTCMODI, LOPTCMOEI, LOPTCMRDI, LOPTCMREI, LOPTCMTIM, LOPTCMUNEQ, LOPTCMVIOL, LOPTIM, LOPUNEQ, LOSE, LOSO, LPRDi, LPrei, LPRFi, MFAS, OAIS, OBDI, OBEI, OBlae, OBIP8, OBSD, OBSF, ODAis, ODBDi, ODBei, ODBIP8, OFSD, OFSF, OIAe, OLCK, OLOF, OLOM, OMSim, OOCI, OOM, OOOF, OPUAIS, OPUCSF, OPULOOMFI, OPUOMFI, OPUOOMFI, OPUPLM, OTLFAS, OTLINVMarKer, OTLLOF, OTLLOL, OTLLOR, OTLOOF, OTLOOR, PBIT, PDIP, PLM, PLOsS, RAI, RAIMf, RDI, RDIL, RDIP, REIL, REIP, RFAS, RLOF, SEF, TS16AIS, TU3AIS, TU3B3, TU3LOM, TU3LOP, TU3PCD, TU3PDI, TU3PLM, TU3PPD, TU3PSD, TU3RDI, TU3REI, TU3TCMBIP, TU3TCMIAIS, TU3TCMIEC, TU3TCMLTC, TU3TCMODI, TU3TCMOEI, TU3TCMRDI, TU3TCMREI, TU3TCMTIM, TU3TCMUNEQ, TU3TCMVIOL, TU3TIM, TU3UNEQ, TULopTU3TIM, TU3UNEQ, TU3TCMVIOL, TULop
Example(s)	SENS:DATA:TEL:SDT:OTN:DSEL BITERROR SENS:DATA:TEL:SDT:OTN:DSEL? Returns: BITERROR
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

Description	This command selects on which layer the service disruption time test is performed. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE <wsp><Layer>
Parameter(s)	Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects on which layer the service disruption time test is performed. Choices depend on the selected test path. DS0, DS1, DS2, DS3, E0, E1, E2, E3, E4, FEC, HOP, HOPTCM, INTERFACE, LINE, LOP, LOPTCM, NONE, ODU0, ODU1, ODU1E, ODU1F, ODU2, ODU2E, ODU2F, ODU3, ODU3E1, ODU3E2, ODU4, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATtern for BER, SECTion, TU3, TU3TCM
Response Syntax	<Selection>
Example(s)	SENS:DATA:TEL:SDT:OTN:LAY:TYPE OTU3e1 SENS:DATA:TEL:SDT:OTN:LAY:TYPE Returns: OTU3e1
See Also	SENSe:DATA:TELecom:SDT:OTN:DSElection

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?	
Description	This query returns the layer for service disruption time test. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?
Response Syntax	<Layer>
Response(s)	Layer: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the layer on which service disruption time test is performed. DS0, DS1, DS2, DS3, E0, E1, E2, E3, E4, FEC, HOP, HOPTCM, INTERFACE, LINE, LOP, LOPTCM, NONE, ODU0, ODU1, ODU1E, ODU1F, ODU2, ODU2E, ODU2F, ODU3, ODU3E1, ODU3E2, ODU4, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATTErn for BER, SECTion, TU3, TU3TCM
Example(s)	SENS:DATA:TEL:SDT:OTN:LAY:TYPE Interface SENS:DATA:TEL:SDT:OTN:LAY:TYPE? Returns: Interface
See Also	SENSe:DATA:TELecom:SDT:OTN:DSELection?

:SENSe:DATA:TELeom:SDT:THReshold

Description	This command selects the configurable threshold value to declare the Service Disruption Pass/Fail verdict. At *RST condition, this value is set to 1000 ms. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - SDT Threshold
Syntax	:SENSe:DATA:TELeom:SDT:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the configurable threshold value to declare the Service Disruption Pass/Fail verdict. Choices are from 18.0 to 299999.995 MAXimum: Biggest supported value MINimum: Smallest supported value. DEFault: Default value
Response Syntax	<Layer>
Example(s)	SENS:DATA:TEL:SDT:THR 50 SENS:DATA:TEL:SDT:THR? Returns: 50
See Also	SENS[1..n]:DATA:TEL:SDT:NTT 18 SENS[1..n]:DATA:TEL:SDT:NTT? Returns 18

:SENSe:DATA:TELecom:SDT:THReshold?	
Description	This query returns the configurable threshold value to declare the Service Disruption Pass/Fail verdict. At *RST condition, this value is set to 50 ms. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - SDT Threshold
Syntax	:SENSe:DATA:TELecom:SDT:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current threshold value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configurable threshold value
Example(s)	SENS:DATA:TEL:SDT:THR SENS:DATA:TEL:SDT:THR? Returns: 0
See Also	SENS[1..n]:DATA:TEL:SDT:NTT 200 SENS[1..n]:DATA:TEL:SDT:NTT? Returns 200

:SENSe:DATA:TELecom:SDT:VERDict

Description	This command sets the Pass/Fail Verdict. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Pass/Fail Verdict
Syntax	:SENSe:DATA:TELecom:SDT:VERDict <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDT:VERD ON SENS:DATA:TEL:SDT:VERD? Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELEcom:SDT:VERDict?	
Description	This query returns the Pass/Fail Verdict. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Pass/Fail Verdict
Syntax	:SENSe:DATA:TELEcom:SDT:VERDict?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Pass/Failed Verdict status 1 - Pass/Failed Verdict status is enabled. 0 - Pass/Failed Verdict status is disabled.
Example(s)	SENS:DATA:TEL:SDT:VERD ON SENS:DATA:TEL:SDT:VERD? Returns: 1
See Also	SENSe:DATA:TELEcom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT?

Description	This query returns the status of disruption time measurements. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Disruption Monitoring
Syntax	:SENSe:DATA:TELecom:SDT?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the disruption time measurements. 1 - measurement is enabled. 0 - measurement is disabled.
Example(s)	SENS:DATA:TEL:SDT ON SENS:DATA:TEL:SDT? Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:COUNt	
Description	This command selects the Pass/Fail Verdict as Bit Error Count and sets the BER Threshold count value. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:COUNt <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Pattern Threshold Count Value. Choices are 0 to 999999 MAXimum: Biggest supported count MINimum: Smallest supported count DEFault: Default value
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATtern:THReshold:COUN 1000 SENS:DATA:TEL:UPRB:PATtern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime?

:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:COUNt?

Description	This query returns the BER Threshold count value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:COUNt?[<wsp><GET>]
Parameter(s)	GET: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the Pattern Threshold Count Value. This parameter is optional. If no token is specified, the Pattern Threshold Count Value is returned. MAXimum: Biggest count value MINimum: Smallest count value DEFault: Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pattern Threshold Count.
Example(s)	SENS:DATA:TEL:UPRB:PATtern:THReshold:COUN 1000 SENS:DATA:TEL:UPRB:PATtern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime

:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:RATE	
Description	This command selects the Pass/Fail Verdict as Bit Error Rate and sets the BER Threshold rate value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATtern:THReshold:RATE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Pattern threshold rate. Choices are 1.0E-14 through 1.9E-01 MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default value
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:UPRB:PATtern:THReshold:RATE 1.0E-12 SENS:DATA:TEL:UPRB:PATtern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATtern:THReshold:COUNt

:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?

Description	This query returns BER Threshold rate value. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELEcom:UPRBs:PATtern:THReshold:RATE?[<wsp> <GET>]
Parameter(s)	GET: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the Pattern Threshold Rate. This parameter is optional. If no token is specified, the Pattern Threshold Rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the pattern Threshold rate.
Example(s)	SENS:DATA:TEL:UPRB:PATtern:THReshold:RATE 1.0E-12 SENS:DATA:TEL:UPRB:PATtern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELEcom:SDT:PATtern:THReshold:COUNt

:SOURce:DATA:TELEcom:OTN:REStore:DEFault	
Description	This command resets the test to its default factory settings. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: OTN Test > Setup > BERT / Unframed BERT > Restore OTN BERT Defaults
Syntax	:SOURce:DATA:TELEcom:OTN:REStore:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:REST:DEF
See Also	SOURce:DATA:TELEcom:SDHSonet:OH:REStore:DEFault SOURce:DATA:TELEcom:GFP:OH:REStore:DEFault

:SOURce:DATA:TELeom:PATtern:VERDict:DISable

Description	This command disables the Pass/Fail Verdict. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:PATtern:VERDict:DISable
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PATtern:VERDict:DISable
See Also	SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:DEFault?

Interface - Laser ON/OFF

:SENSe:DATA:TELeom:ALASer	
Description	This command enables/disables the All Lanes selection; once set use the following command to enable/disable the laser for all lanes OUTPut[1..n]:TELeom:LASer At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU4/OTU3/100GE/40GE parallel interface > Interface/Signal > Physical Interface - Laser ON/OFF > All Lanes
Syntax	:SENSe:DATA:TELeom:ALASer <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the laser for all Lanes. ON: Enabled OFF: Disabled
Response Syntax	<Termination>
Example(s)	SENS:DATA:TEL:ALAS ON SENS:DATA:TEL:ALAS? Returns: 1
See Also	SENSe:DATA:TELeom:ALASer ON SENSe:DATA:TELeom:ALASer? Returns: 1

:SENSe:DATA:TELecom:ALASer?

Description	This query returns the state of the All Lanes selection. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU4/OTU3/100GE/40GE parallel interface > Interface/Signal > Physical Interface - Laser ON/OFF > All Lanes
Syntax	:SENSe:DATA:TELecom:ALASer?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the laser for all lanes. 1, returns the status of the laser for all lanes as ON. 0, returns the status of the laser for all lanes as OFF.
Example(s)	SENS:DATA:TEL:ALAS ON SENS:DATA:TEL:ALAS? Returns: 1
See Also	SENSe:DATA:TELecom:LASer? SENSe:DATA:TELecom:LASer

SCPI Command Reference

Interface - Laser ON/OFF

:SENSe:DATA:TELecom:LASer	
Description	This command enables/disables the laser for the selected lane. Available when the All Lanes setting is disabled. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser ON/OFF > Lane
Syntax	:SENSe:DATA:TELecom:LASer <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the laser according to per lane CONFig. ON, sets the laser to ON. OFF, sets the laser to OFF.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:LAS 1, ON SENS:DATA:TEL:LAS? 1 Returns: 1
See Also	SENSe:DATA:TELecom:LASer? SENSe:DATA:TELecom:ALASer

:SENSe:DATA:TELecom:LASer?

Description	This query returns the enable/disable status of the laser for a specific lane. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser ON/OFF > Lane
Syntax	:SENSe:DATA:TELecom:LASer? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of the laser for a specific lane. 1: Laser is ON 0: Lase is OFF
Example(s)	SENS:DATA:TEL:LAS 1, ON SENS:DATA:TEL:LAS? 1 Returns: 1
See Also	SENSe:DATA:TELecom:ALASer

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:FETCh:DATA:TELEcom:OTN:BITRate?	
Description	This query returns the nominal bit rate value. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Nominal Bit Rate
Syntax	:FETCh:DATA:TELEcom:OTN:BITRate?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the nominal bit rate value
Example(s)	FETC:DATA:TEL:OTN:BITRate?
See Also	FETCh:DATA:TELEcom:OTN:SLOTs

:FETCh:DATA:TELEcom:OTN:SLOTs?

Description	This query returns the number of tributary slot enabled/selected. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Number of Trib Slots
Syntax	:FETCh:DATA:TELEcom:OTN:SLOTs?
Response Syntax	<Slots>
Response(s)	Slots: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Count of No.of Tributary Slots selected.
Example(s)	FETC:DATA:TEL:OTN:SLOTs?
See Also	FETCh:DATA:TELEcom:OTN:BITRate

SCPI Command Reference

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle	
Description	This command enables/disables the fixed structure. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Fixed Structure
Syntax	:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle <wsp><OduType>, <Status>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Slots>
Example(s)	SOUR:DATA:TEL:OTN:FSTR:ENAB ODU3,ON
See Also	SOURce:DATA:TELecom:OTN:PORT

:SOURce:DATA:TELecom:OTN:FSTRucture:ENABLE?

Description	This query returns the fixed structure status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Fixed Structure
Syntax	:SOURce:DATA:TELecom:OTN:FSTRucture:ENABLE? <wsp><OduType>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:FSTR:ENAB? ODU3
See Also	SOURce:DATA:TELecom:OTN:PORT

SCPI Command Reference

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:SOURce:DATA:TELecom:OTN:PORT	
Description	This command sets the tributary port value. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Tributary Port
Syntax	:SOURce:DATA:TELecom:OTN:PORT <wsp><OduType>,[<Set>]
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value. Set: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the port value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:PORT ODU3,3
See Also	SOURce:DATA:TELecom:OTN:FSTRucture:ENABLE

:SOURce:DATA:TELeom:OTN:PORT?

Description	This query returns the tributary port value. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Tributary Port
Syntax	:SOURce:DATA:TELeom:OTN:PORT? <wsp><OduType>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value.
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the port value.
Example(s)	SOUR:DATA:TEL:OTN:PORT? ODU3
See Also	SOURce:DATA:TELeom:OTN:FSTRucture:ENABLE

SCPI Command Reference

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:SOURce:DATA:TELecom:OTN:POStion	
Description	This command selects/un-selects a specific tributary slot. At *RST condition, this value is set to 1 (ON). Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POStion <wsp><OduType>, <Slot>, <Set>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value. Slot: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the slot value. Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the slot status whether selected or not selected. ON, enables slot selection. OFF, disables slot selection.
Response Syntax	<port>
Example(s)	SOUR:DATA:TEL:OTN:POS ODU2,1, ON
See Also	SOURce:DATA:TELecom:OTN:POStion? SOURce:DATA:TELecom:OTN:POStion:RANGe

:SOURce:DATA:TELEcom:OTN:POSition:RANGe

Description	This command selects/un-selects a group of tributary slots. At *RST condition, this value is set to 1 (ON). Navigation Path: Setup > Test Configurator > Signal (OTU) > Modify Tributary Slots/Port
Syntax	:SOURce:DATA:TELEcom:OTN:POSition:RANGe <wsp><ODU>, <Slot-From>, <Slot-To>, <Set>
Parameter(s)	ODU: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value. Slot-From: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the first slot in the range. Slot-To: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the last slot in the range. Set: The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables the slots for the selected range. ON: Enables slots OFF: Disables slots
Response Syntax	<port>
Example(s)	SOUR:DATA:TEL:OTN:POS:RANG ODU4,1,31,ON SOUR:DATA:TEL:OTN:POS:RANG? ODU4
See Also	SOURce:DATA:TELEcom:OTN:POSition:RANGe? SOURce:DATA:TELEcom:OTN:POSition

SCPI Command Reference

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:SOURce:DATA:TELecom:OTN:POSition:RANGe?	
Description	This query returns the status for all slots, for selected ODU type. At *RST condition, this value is set to 1 (ON). Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POSition:RANGe? <wsp><OduType>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value.
Response Syntax	<Slot status>
Response(s)	Slot status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns all available slots and their status for specified ODU type. 1: Selected 0: Not selected
Example(s)	SOUR:DATA:TEL:OTN:POS:RANG ODU4,1,31,ON SOUR:DATA:TEL:OTN:POS:RANG? ODU4
See Also	SOURce:DATA:TELecom:OTN:POSition:RANGe? SOURce:DATA:TELecom:OTN:POSition?

:SOURce:DATA:TELecom:OTN:POStion?

Description	This query returns the state of a specific tributary slot. At *RST condition, this value is set to 1 (ON). Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POStion? <wsp><OduType>, <Slot>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the ODU type value. Slot: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the slot value.
Response Syntax	<status>
Response(s)	status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the slot status, whether it is selected or not. 1: Selected 0: Not selected
Example(s)	SOUR:DATA:TEL:OTN:POS? ODU2,1
See Also	SOURce:DATA:TELecom:OTN:POStion SOURce:DATA:TELecom:OTN:POStion:RANGe?

Signal - Signal Configuration (OTN) - Config TCM

:SOURce:DATA:TELEcom:OTN:ODU[1..n]:CONFig:TCM[1..n]	
Description	This command enables/disables TCM. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELEcom:OTN:ODU[1..n]:CONFig:TCM[1..n] <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the TCM values. ON, sets the TCM ON. OFF, sets the TCM OFF.
Response Syntax	<List of ODUx Tributary Configuration>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1 ON SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTU[1..n]:SCRambler SOURce:DATA:TELEcom:OTN:OTU[1?n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?

Description	This query returns the status of TCM. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the TCM values. 0, returns the status as OFF. 1, returns the status as ON.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1 ON SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]	
Description	This command sets the status of TCM values for OTU1e/2e and OTU3e1/e2 rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n] <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1 ON SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?

Description	This query returns the status of TCM for OTU1e/2e and OTU3e1/e2 rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the TCM values. 0, returns the status as OFF. 1, returns the status as ON.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1 OFF SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1? Returns: 0
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]	
Description	This command sets the status of TCM for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n] <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1 ON SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?

Description	This query returns the status of TCM for OTU1f/2f rate. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OTU1f/2f > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the TCM values. 0, returns the status of the TCM values is disabled. 1, returns the status of the TCM values is enabled.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1 OFF SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1? Returns: 0
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

Modify Frame Structure

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode	
Description	This command sets the Layer mode for selected service. At *RST condition, the value is set to Mixed. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure - Layer Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode <wsp><Layer Mode>
Parameter(s)	Layer Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Layer mode. MIXED : Mixed LAYER2ONLY : L2 Only
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:LAY MIXED

:SOURce:DATA:TELeom:ETHernet:ESAM:CONFig:SERVices:LAYermode?	
Description	This query returns the Layer mode for selected service. At *RST condition, the value is set to Mixed. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure - Layer Mode
Syntax	:SOURce:DATA:TELeom:ETHernet:ESAM:CONFig:SERVices:LAYermode?
Response Syntax	<Layer Mode>
Response(s)	Layer Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Layer Mode. MIXED: Mixed LAYER2ONLY : L2 Only
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:LAY MIXED

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN	
Description	This command enables/disables VLAN tags. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN <wsp><Service>,<Direction>,<Set>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the VLAN. ON: Enabled OFF: Disabled
Response Syntax	<Layer Mode>
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked

Description	This command selects the number of staked VLAN tags. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Stacked: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Layer Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,3
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked?	
Description	This query returns the number of staked VLAN tags. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Stacked>
Response(s)	Stacked: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the VLAN stacked.
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,3 SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC? 1, LTOR Returns: 3
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM: CONFig:SERVices:VLAN?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN?	
Description	This query returns the status fo VLAN tags. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Set>

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN?	
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Virtual Local Area Network (VLAN) Configuration. 1, VLAN is enabled. 0, VLAN is disabled.
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:VLAN? 1, LTOR Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam: ETher?

:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion

Description	This command selects the IP version. At *RST condition, this value is set to IPv4. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion <wsp><IP Version>
Parameter(s)	IP Version: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the IP version. IPV6 IPV4
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:PORT:IPV IPV6 SOUR:DATA:TEL:ETH:PORT:IPV? Returns: IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRes?

:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?	
Description	This query returns the IP version. At *RST condition, this value is set to IPv4. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?
Response Syntax	<IP Version>
Response(s)	IP Version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the IP version. IPV4 IPV6
Example(s)	SOUR:DATA:TEL:ETH:PORT:IPV IPV6 SOUR:DATA:TEL:ETH:PORT:IPV? Returns: IPV6
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:MODE?

:SOURce:DATA:TELecom:ETHerneT:STReam:DATalink

Description	This command sets the framing frame format. At *RST condition, this value is set to ETHERNETII. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHerneT:STReam:DATalink[<wsp><Stream>], <Datalink>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Datalink: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the type of datalink. ETHERNETII: ETHERNETII 8023LLCSNAP4: 802.3 SNAP
Response Syntax	<IP Version>
Example(s)	SOUR:DATA:TEL:ETH:STR:DAT 1, ETHERNETII SOUR:DATA:TEL:ETH:STR:DAT? 1 Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHerneT:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:STReam:DATalink?	
Description	This query returns the the framing frame format. At *RST condition, this value is set to ETHERNETII. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DATalink?[<wsp><Stream>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Datalink>
Response(s)	Datalink: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selected datalink type. ETHERNETII, ETHERNETII as datalink is selected. 8023LLCSNAP4,802.3 SNAP as datalink is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:DAT 1, ETHERNETII SOUR:DATA:TEL:ETH:STR:DAT? 1 Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink SOURce:DATA:TELecom:ETHernet:STReam:NETWork?

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS

Description	This command enables/disables MPLS labels. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS <wsp><Number>, <Set>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the MPLS selection for selected stream ON, Enables MPLS selection for selected stream. OFF, Disables MPLS selection for selected stream.
Response Syntax	<Datalink>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:MPLS 1, on SOURce:DATA:TELEcom:ETHernet:STReam:MPLS? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:HEADers

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers	
Description	This command set the number of MPLS header. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers <wsp><Number>, <Label Count>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Label Count: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Label Count.
Response Syntax	<Datalink>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD 1, 1 SOUR:DATA:TEL:ETH:STR:MPLS:HEAD? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel

:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:HEADers?

Description	This query returns the number fo MPLS header. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:HEADers? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Label Count (header)>
Response(s)	Label Count (header): The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the label count (Header).
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD 1, 1 SOUR:DATA:TEL:ETH:STR:MPLS:HEAD? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MPLS:COSExp?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS?	
Description	This query returns the status of MPLS labels. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns MPLS status. 1, MPLS is enabled. 0, MPLS is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:MPLS 1, on SOURce:DATA:TELecom:ETHernet:STReam:MPLS? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers?

:SOURce:DATA:TELEcom:ETHernet:STReam:NETWork

Description	This command sets framing network layer. At *RST condition, this value is set to IPV4. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:NETWork[<wsp><Tgen>], <Network>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Network: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of network. NONE: None IPV4: Internet Protocol version 4 IPV6: Internet Protocol version 6 MPLSIPV4: IPV4 (Internet Protocol version 4) when MPLS is enabled MPLSIPV6: IPV6 (Internet Protocol version 6) when MPLS is enabled
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:NETW 1, IPV4 SOUR:DATA:TEL:ETH:STR:NETW? Returns: IPV4
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:NETWork? SOURce:DATA:TELEcom:ETHernet:STReam:DAtalink

:SOURce:DATA:TELecom:ETHernet:STReam:NETWork?	
Description	This query returns the framing network layer. At *RST condition, this value is set to IPV4. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:NETWork?[<wsp><Tgen>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Network>
Response(s)	Network: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selected network type. NONE, No network type is selected. IPV4, IPV4 is selected as the network type. IPV6, IPV6 is selected as the network type. MPLSIPV4, MPLSIPV4 is selected as the network type. MPLSIPV6,MPLSIPV6 is selected as the network type.
Example(s)	SOUR:DATA:TEL:ETH:STR:NETW 1, IPV4 SOUR:DATA:TEL:ETH:STR:NETW? 1 Returns: IPV4
See Also	SOURce:DATA:TELecom:ETHernet:STReam:NETWork

:SOURce:DATA:TELeom:ETHernet:STReam:TRANsport

Description	This command sets the framing transport layer. At *RST condition, this value is set to UDP. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:TRANsport[<wsp><Stream>], <Transport>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Transport: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transport traffic type. NONE, No transport traffic type is selected. UDP: UDP (User Data Protocol). TCP: TCP.
Response Syntax	<Network>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN 1, UDP SOUR:DATA:TEL:ETH:STR:TRAN? 1 Returns: UDP
See Also	SOURce:DATA:TELeom:ETHernet:STReam:TRANsport?

:SOURce:DATA:TELEcom:ETHernet:STReam:TRANsport?	
Description	This query returns the framing transport layer. At *RST condition, this value is set to UDP. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TRANsport?[<wsp><Stream>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Transport>
Response(s)	Transport: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the selected transport type. UDP, transport link as UDP is selected. TCP,transport link as TCP is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN 1, UDP SOUR:DATA:TEL:ETH:STR:TRAN? 1 Returns: UDP
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:NETWork

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN

Description	This command enables/disables VLAN tags. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN[<wsp><Number>], <Set>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Set the VLAN for the stream. ON, enables the VLAN OFF, disables the VLAN.
Response Syntax	<Transport>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN?

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked	
Description	This command sets the number of stacked VLAN. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked <wsp><Number>, <Stacked>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM Stacked: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Transport>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3 SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1 Returns: 3
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked?

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked?

Description	This query returns the number of stacked VLAN. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Stacked>
Response(s)	Stacked: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the VLAN stacked.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3 SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1 Returns: 3
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACked

:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN?	
Description	This query returns the status of VLAN tags. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:VLAN?[<wsp> <Number>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of VLAN type frames. 1, VLAN is enabled. 0, VLAN is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:VLAN SOURce:DATA:TELEcom:ETHernet:STReam:VLAN:STACKed

TOS/DS Configuration

:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE

Description	This command sets the DSCP Codepoints value. At *RST condition, this value is set to CS0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - DSCP Codepoints.
Syntax	:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE <wsp><Direction>, <Code>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Code: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the code point for the differentiated services. AF11, AF12, AF13, AF21, AF22, AF23, AF31, AF32, AF33, AF41, AF42, AF43 CS0, CS1, CS2,CS3, CS4, CS5, CS6, CS7 DSCP51 DSCP54 EF UCODE: User Defined
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:CODE LTOR, CS1 SOUR:DATA:TEL:ETH:IP:DS:CODE? LTOR Returns: CS1
See Also	SOURce:DATA:TELEcom:ETHernet:IP:DS SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE?

:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE?	
Description	This query returns the DSCP Codepoints value. At *RST condition, this value is set to CS0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Code>

:SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE?

Response(s)

Code:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Return the DS codepoint value.

CS0, selects CS0 as the DS code point.

CS1, selects CS1 as the DS code point.

CS2, selects CS2 as the DS code point.

CS3, selects CS3 as the DS code point.

CS4, selects CS4 as the DS code point.

CS5, selects CS5 as the DS code point.

CS6, selects CS6 as the DS code point.

CS7, selects CS7 as the DS code point.

AF11, selects AF11 as the DS code point.

AF12, selects AF12 as the DS code point.

AF13, selects AF13 as the DS code point.

AF21, selects AF21 as the DS code point.

AF22, selects AF22 as the DS code point.

AF23, selects AF23 as the DS code point.

AF31, selects AF31 as the DS code point.

AF32, selects AF32 as the DS code point.

AF33, selects AF33 as the DS code point.

AF41, selects AF41 as the DS code point.

AF42, selects AF42 as the DS code point.

AF43, selects AF43 as the DS code point.

EF, selects EF as the DS code point.

DSCP51, selects 51 as the DS code point.

DSCP54, selects 54 as the DS code point.

UCODE, selects User Defined as the DS code point.

Example(s)

SOUR:DATA:TEL:ETH:IP:DS:CODE LTOR, CS1

SOUR:DATA:TEL:ETH:IP:DS:CODE? LTOR

Returns: CS1

See Also

SOURce:DATA:TELEcom:ETHernet:IP:DS

SOURce:DATA:TELEcom:ETHernet:IP:DS:CODE

:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN	
Description	This command sets the value of Explicit Congestion Notification (ECN). At *RST condition, this value is set to 00 (Not-ECT). Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN <wsp><Direction>, <Ecn>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Ecn: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value for ECN (Explicit Congestion Notification). NECT: Not ECT (ECN Capable Transport) ECT1: ECT-1 ECT0: ECT-0 CE: CE (European Conformity)
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:ECN LTOR, NECT SOUR:DATA:TEL:ETH:IP:DS:ECN? LTOR Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS SOURce:DATA:TELecom:ETHernet:IP:DS:ECN?

:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN?

Description	This query returns the value of the Explicit Congestion Notification (ECN). At *RST condition, this value is set to 00 (Not-ECT). Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Ecn>
Response(s)	Ecn: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of Explicit Congestion Notification (ECN). NECT, indicates Not ECT (ECN Capable Transport) as the ECN value. ECT1, indicates ECT-1 as the ECN value. ECT0, indicates ECT-0 as the ECN value. CE, indicates CE (European Conformity) as the ECN value.
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:ECN LTOR, NECT SOUR:DATA:TEL:ETH:IP:DS:ECN? LTOR Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS SOURce:DATA:TELecom:ETHernet:IP:DS:ECN

:SOURce:DATA:TELeom:ETHernet:IP:TOS:BIT	
Description	This command selects the reserved bit value of Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELeom:ETHernet:IP:TOS:BIT <wsp><Direction>, <Bit>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Bit: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the reserved bit value. 0 1
Response Syntax	<Ecn>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:BIT LTOR,#B1 SOUR:DATA:TEL:ETH:IP:TOS:BIT? LTOR Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:IP:TOS:BIT?

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:BIT?

Description	This query returns the reserved bit value of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELEcom:ETHernet:IP:TOS:BIT? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Bit>
Response(s)	Bit: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the reserved bit value.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:BIT LTOR,#B1 SOUR:DATA:TEL:ETH:IP:TOS:BIT? LTOR Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:IP:TOS:BIT

:SOURce:DATA:TELecom:ETHerNet:IP:TOS:COST	
Description	This command sets the monetary cost level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHerNet:IP:TOS:COST <wsp><Direction> , <Cost>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Cost: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the monetary cost level of the Type of Service. NORMal: Normal TLOW: Low
Response Syntax	<Bit>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:COST LTOR, TLOW SOUR:DATA:TEL:ETH:IP:TOS:COST? LTOR Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHerNet:IP:TOS:COST?

:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST?

Description	This query returns the monetary cost level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Cost>
Response(s)	Cost: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the monetary cost level of the Type of Service. NORMAL, indicates Normal as the monetary cost level. TLOW, indicates Low as the monetary cost level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:COST LTOR, TLOW SOUR:DATA:TEL:ETH:IP:TOS:COST? LTOR Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:COST

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:DElay	
Description	This command sets the delay level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELEcom:ETHernet:IP:TOS:DElay <wsp><Direction>, <Delay>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Delay: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the delay level of the Type of Service. NORMAL: Normal TLOW: Low
Response Syntax	<Cost>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:DEL LTOR, TLOW SOUR:DATA:TEL:ETH:IP:TOS:DEL? LTOR Returns: TLOW
See Also	SOURce:DATA:TELEcom:ETHernet:IP:TOS:DElay?

:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELaY?

Description	This query returns the delay level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELaY? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Delay>
Response(s)	Delay: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the delay level of the Type of Service. NORMal, indicates Normal as the delay level. TLOW, indicates Low as the delay level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:DEL LTOR, TLOW SOUR:DATA:TEL:ETH:IP:TOS:DEL? LTOR Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:DELaY

:SOURce:DATA:TELecom:ETHernet:IP:TOS:PREcedence	
Description	This command sets the precedence of the Type of Service (TOS). At *RST condition, this value is set to ROUTine. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:PREcedence <wsp><Direction> , <Precedence>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Precedence: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the precedence of the Type of Service (TOS) for the selected traffic stream. ROUTine: Routine. PRIority: Priority. IMMEDIATE: Immediate. FLASh: Flash. FOVerride: Flash Override. CRITic: Critic. ICONtrol: Internet Control. NCONtrol: Network Control.
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:PREC LTOR, ROUT SOUR:DATA:TEL:ETH:IP:TOS:PREC? LTOR Returns: ROUTINE
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:PREcedence? SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay

:SOURce:DATA:TELeom:ETHernet:IP:TOS:PRECedence?

Description	This query returns the precedence of the Type of Service (TOS). At *RST condition, this value is set to ROUTine. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELeom:ETHernet:IP:TOS:PRECedence? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the precedence of the Type of Service. ROUTINE, Routine is selected as the TOS precedence. PRIORITY, Priority is selected as precedence. IMMEDIATE, Immediate is selected as precedence. FLASH, Flash is selected as precedence. FOVERRIDE, Flash Override is selected as precedence. CRITIC, Critic is selected as precedence. ICONTROL, Internet Control is selected as precedence. NCONTROL, Network Control is selected as precedence.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:PREC LTOR, ROUT SOUR:DATA:TEL:ETH:IP:TOS:PREC? LTOR Returns: ROUTINE
See Also	SOURce:DATA:TELeom:ETHernet:IP:TOS:PRECedence SOURce:DATA:TELeom:ETHernet:IP:TOS:DElay

:SOURce:DATA:TELEcom:ETHernet:IP:TOS:RELiability	
Description	This command sets the reliability level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELEcom:ETHernet:IP:TOS:RELiability <wsp> <Direction>, <Reliability>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Reliability: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the reliability level of the Type of Service. NORMal: Normal HIGH: High
Response Syntax	<Precedence>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:REL LTOR, HIGH SOUR:DATA:TEL:ETH:IP:TOS:REL? LTOR Returns: HIGH
See Also	SOURce:DATA:TELEcom:ETHernet:IP:TOS:RELiability? SOURce:DATA:TELEcom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability?

Description	This query returns the reliability level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Reliability>
Response(s)	Reliability: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the reliability level of the Type of Service. NORMal, indicates the reliability level as Normal. HIGH, indicates the reliability level as High.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:REL LTOR, HIGH SOUR:DATA:TEL:ETH:IP:TOS:REL? LTOR Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput	
Description	This command sets the throughput level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput <wsp><Direction>, <Throughput>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local Throughput: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the throughput level of the Type of Service. NORMAL: Normal HIGH: High
Response Syntax	<Reliability>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:THR LTOR, HIGH SOUR:DATA:TEL:ETH:IP:TOS:THR? LTOR Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput? SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput?

Description	This query returns the throughput level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Throughput>
Response(s)	Throughput: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the throughput level of the Type of Service. NORMAL, Normal is selected as the throughput level. HIGH, High is selected as the throughput level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:THR LTOR, HIGH SOUR:DATA:TEL:ETH:IP:TOS:THR? LTOR Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput SOURce:DATA:TELecom:ETHernet:IP:TOS:PREcedence

:SOURce:DATA:TELEcom:ETHernet:STReam:DS	
Description	This command enables/disables the differentiated service status for the selected traffic stream. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DS <wsp><Tgen>,[<Set>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable or disable the DS. ON, Enables the DS. OFF, Disables the DS.
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON SOUR:DATA:TEL:ETH:STR:DS? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DS?

:SOURce:DATA:TELEcom:ETHernet:STReam:DS:CODE	
Description	This command sets the DSCP Codepoints value. At *RST condition, this value is set to CS0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:DS:CODE <wsp><Tgen>,[<Code>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Code: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the code point for the differentiated services. AF11, AF12, AF13, AF21, AF22, AF23, AF31, AF32, AF33, AF41, AF42, AF43 CS0, CS1, CS2,CS3, CS4, CS5, CS6, CS7 DSCP51 DSCP54 EF UCODE: User Defined
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON SOUR:DATA:TEL:ETH:STR:DS:CODE 1, CS1 SOUR:DATA:TEL:ETH:STR:DS:CODE? 1 Returns: CS1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DS SOURce:DATA:TELEcom:ETHernet:STReam:DS:CODE?

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?	
Description	This query returns the DSCP Codepoints value. At *RST condition, this value is set to CS0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE? <wsp> <Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Code>

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?

Response(s)

Code:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Return the DS codepoint value.

CS0, selects CS0 as the DS code point.

CS1, selects CS1 as the DS code point.

CS2, selects CS2 as the DS code point.

CS3, selects CS3 as the DS code point.

CS4, selects CS4 as the DS code point.

CS5, selects CS5 as the DS code point.

CS6, selects CS6 as the DS code point.

CS7, selects CS7 as the DS code point.

AF11, selects AF11 as the DS code point.

AF12, selects AF12 as the DS code point.

AF13, selects AF13 as the DS code point.

AF21, selects AF21 as the DS code point.

AF22, selects AF22 as the DS code point.

AF23, selects AF23 as the DS code point.

AF31, selects AF31 as the DS code point.

AF32, selects AF32 as the DS code point.

AF33, selects AF33 as the DS code point.

AF41, selects AF41 as the DS code point.

AF42, selects AF42 as the DS code point.

AF43, selects AF43 as the DS code point.

EF, selects EF as the DS code point.

DSCP51, selects 51 as the DS code point.

DSCP54, selects 54 as the DS code point.

UCODE, selects User Defined as the DS code point.

Example(s)

SOUR:DATA:TEL:ETH:STR:DS 1, ON

SOUR:DATA:TEL:ETH:STR:DS:CODE 1, CS1

SOUR:DATA:TEL:ETH:STR:DS:CODE? 1

Returns: CS1

:SOURce:DATA:TELecom:ETHermet:STReam:DS:CODE?

See Also	SOURce:DATA:TELecom:ETHermet:STReam:DS
	SOURce:DATA:TELecom:ETHermet:STReam:DS:CODE

:SOURce:DATA:TELeom:ETHernet:STReam:DS:ECN

Description	This command sets the value of Explicit Congestion Notification (ECN). At *RST condition, this value is set to 00 (Not-ECT). Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:DS:ECN <wsp><Tgen>,[<Ecn>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Ecn: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value for ECN (Explicit Congestion Notification). NECT: Not ECT (ECN Capable Transport) ECT1: ECT-1 ECT0: ECT-0 CE: CE (European Conformity)
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON SOUR:DATA:TEL:ETH:STR:DS:ECN 1, NECT SOUR:DATA:TEL:ETH:STR:DS:ECN? 1 Returns: NECT
See Also	SOURce:DATA:TELeom:ETHernet:STReam:DS SOURce:DATA:TELeom:ETHernet:STReam:DS:ECN?

:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN?	
Description	This query returns the value of the Explicit Congestion Notification (ECN). At *RST condition, this value is set to 00 (Not-ECT). Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Ecn>
Response(s)	Ecn: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of Explicit Congestion Notification (ECN). NECT, indicates Not ECT (ECN Capable Transport) as the ECN value. ECT1, indicates ECT-1 as the ECN value. ECT0, indicates ECT-0 as the ECN value. CE, indicates CE (European Conformity) as the ECN value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON SOUR:DATA:TEL:ETH:STR:DS:ECN 1, NECT SOUR:DATA:TEL:ETH:STR:DS:ECN? 1 Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN

:SOURce:DATA:TELecom:ETHernet:STReam:DS?

Description	This query returns the status of the differentiated service status for the selected traffic stream. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of differentiated service. 1, Differentiated service is enabled. 0, Differentiated service is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON SOUR:DATA:TEL:ETH:STR:DS? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:BIT

Description	This command selects the reserved bit value of Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:BIT <wsp><Tgen>, <Bit>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Bit: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the reserved bit value. 0 1
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:BIT 4,#B1 SOUR:DATA:TEL:ETH:STR:TOS:BIT? 4 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:BIT?

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT?

Description	This query returns the reserved bit value of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT? <wsp> <Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Bit>
Response(s)	Bit: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the reserved bit value.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:BIT 4,#B1 SOUR:DATA:TEL:ETH:STR:TOS:BIT? 4 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST	
Description	This command sets the monetary cost level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST <wsp><Tgen>, <Cost>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Cost: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the monetary cost level of the Type of Service. NORMAL: Normal TLOW: Low
Response Syntax	<Bit>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:COST 1, TLOW SOUR:DATA:TEL:ETH:STR:TOS:COST? 1 Returns: TLOW
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST?

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST?

Description	This query returns the monetary cost level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Cost>
Response(s)	Cost: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the monetary cost level of the Type of Service. NORMal, indicates Normal as the monetary cost level. TLOW, indicates Low as the monetary cost level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:COST 1, TLOW SOUR:DATA:TEL:ETH:STR:TOS:COST? 1 Returns: TLOW
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:COST

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DElay	
Description	This command sets the delay level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DElay <wsp><Tgen>, <Delay>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Delay: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the delay level of the Type of Service. NORMAL: Normal TLOW: Low
Response Syntax	<Cost>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:DEL 1, TLOW SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1 Returns: TLOW
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DElay?

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELaY?

Description	This query returns the delay level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELaY? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Delay>
Response(s)	Delay: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the delay level of the Type of Service. NORMal, indicates Normal as the delay level. TLOW, indicates Low as the delay level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:DEL 1, TLOW SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1 Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELaY

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PREcedence	
Description	This command sets the precedence of the Type of Service (TOS). At *RST condition, this value is set to ROUTine. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PREcedence <wsp><Tgen>,[<Precedence>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Precedence: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the precedence of the Type of Service (TOS) for the selected traffic stream. ROUTine: Routine. PRIOrity: Priority. IMMEDIATE: Immediate. FLASH: Flash. FOVerride: Flash Override. CRITic: Critic. ICONTrol: Internet Control. NCONtrol: Network Control.
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:PREC 1, ROUT SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1 Returns: ROUTINE
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PREcedence? SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DELay

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence?

Description	This query returns the precedence of the Type of Service (TOS). At *RST condition, this value is set to ROUTine. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the precedence of the Type of Service. ROUTINE, Routine is selected as the TOS precedence. PRIORITY, Priority is selected as precedence. IMMEDIATE, Immediate is selected as precedence. FLASH, Flash is selected as precedence. FOVERRIDE, Flash Override is selected as precedence. CRITIC, Critic is selected as precedence. ICONTROL, Internet Control is selected as precedence. NCONTROL, Network Control is selected as precedence.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:PREC 1, ROUT SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1 Returns: ROUTINE
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence SOURce:DATA:TELEcom:ETHernet:STReam:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELIability	
Description	This command sets the reliability level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELIability <wsp><Tgen>, <Reliability>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Reliability: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the reliability level of the Type of Service. NORMAL: Normal HIGH: High
Response Syntax	<Precedence>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:REL 1, HIGH SOUR:DATA:TEL:ETH:STR:TOS:REL? 1 Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELIability? SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:RELIability?

Description	This query returns the reliability level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:RELIability? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Reliability>
Response(s)	Reliability: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the reliability level of the Type of Service. NORMal, indicates the reliability level as Normal. HIGH, indicates the reliability level as High.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:REL 1, HIGH SOUR:DATA:TEL:ETH:STR:TOS:REL? 1 Returns: HIGH
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:RELIability SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput

Description	This command sets the throughput level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput <wsp><Tgen>, <Throughput>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Throughput: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the throughput level of the Type of Service. NORMal: Normal HIGH: High
Response Syntax	<Reliability>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:THR 1, HIGH SOUR:DATA:TEL:ETH:STR:TOS:THR? 1 Returns: HIGH
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput? SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput ?

Description	This query returns the throughput level of the Type of Service (TOS). At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput? <wsp> <Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Throughput>
Response(s)	Throughput: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the throughput level of the Type of Service. NORMAL, Normal is selected as the throughput level. HIGH, High is selected as the throughput level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:THR 1, HIGH SOUR:DATA:TEL:ETH:STR:TOS:THR? 1 Returns: HIGH
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TOS:THRoughput SOURce:DATA:TELEcom:ETHernet:STReam:TOS:PRECedence

Configure Per Frame Size

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ALL:FRAMe	
Description	This command selects/clears the All Frames check box. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > All Frames
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ALL:FRAMe <wsp><Test>
Parameter(s)	Test: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables All Frames. ON, enables All Frames. OFF, disables All Frames.
Response Syntax	<Validations>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM ON SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FLOSs:TTIME?

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ALL:FRAME?

Description	This query returns the status the All Frames check box. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > All Frames
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:ALL:FRAME?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of 'All Frames'. 0, returns the status of checkbox as disabled. 1, returns the status of checkbox as enabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM ON SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TTIME

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Description	This command selects the maximum rate per frame for the latency subtest. At *RST condition, this value is set to 100.0000. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (per frame) NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n] <wsp> <Direction> , <Maxrate>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the maximum rate for the Latency test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1 TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate1?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall

Description	This command sets the maximum rate for all frame sizes. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (All) NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall <wsp><Direction>,<Maxrate>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value for all frame sizes. Choices varies according to the selection of unit. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall

Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET TX2RX,50.00 SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET? TX2RX
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TAverage SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TAverage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall?	
Description	This query returns the maximum rate for all frame sizes. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (All) NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall? <wsp><Direction>,[<Maxrate>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value for all frame sizes. Choices varies according to the selection of unit. This parameter is optional. If no token is specified, the current value for all frame sizes is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall?

Response(s)	Maxrate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value for all frame sizes.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SETall TX2RX,50.00 SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SETall? TX2RX
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate1?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?	
Description	This query returns the maximum rate per frame for the latency subtest. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (per frame) NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]? <wsp><Direction>,[<Maxrate>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the maximum rate for the Latency test. This parameter is optional. If no token is specified, the current maximum rate for the latency subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

Response(s)	Maxrate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum rate for the latency test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1 TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate

GFP-F/GFP-T

:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:CID	
Description	This command sets the Channel ID. At *RST condition, this value is 0. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Extension Header - CID
Syntax	:SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:CID <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects Channel Id between 0 to 255. MAXimum, sets Channed Id to maximum value. MINimum, sets Channed Id to minimum value.
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:CID 230 SOUR:DATA:TEL:GFP:CHAN:CONF:CID? Returns: 230
See Also	SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?

Description	This query returns the Channel ID. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Extension Header - CID
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified the CONFig is 0. MAXimum, sets Channed Id to maximum value. MINimum, sets Channed Id to minimum value.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Channel used for reception.
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:CID 230 SOUR:DATA:TEL:GFP:CHAN:CONF:CID? Returns: 230
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE	
Description	This command sets the presence of expected payload FCS for Frames. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - CDF pFCS / CMF pFCS
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE <wsp><Frames>, <Status>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Frame Type. CDFRames CMFRames Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE CDFR,ON SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE? CDFR Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

Description	This query returns the presence of expected payload FCS for Frames. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - CDF pFCS / CMF pFCS
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE? <wsp> <Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Frame Type. CDFRames CMFRames
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the presence of expected payload Gfp for Frames. 1 -expected payload Gfp for Frames is enabled. 0 -expected payload Gfp for Frames is disabled.
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE CDFR,ON SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE? CDFR Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID

:SOURce:DATA:TELEcom:GFP:CONFig:EXI	
Description	This command sets the Extension Header Identifier At *RST condition, this value is set to Null. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - EXI
Syntax	:SOURce:DATA:TELEcom:GFP:CONFig:EXI <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Extension Header Identifier value. NULL LINEar
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:CONF:EXI NULL SOUR:DATA:TEL:GFP:CONF:EXI? Returns: NULL
See Also	SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELecom:GFP:CONFig:EXI?

Description	This query returns the Extension Header Identifier. At *RST condition, this value is set to Null. Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - EXI
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:EXI?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Extension Header Identifier. NULL, returns NULL as Extension Header Identifier LINEAR, returns LINEAR as Extension Header Identifier
Example(s)	SOUR:DATA:TEL:GFP:CONF:EXI NULL SOUR:DATA:TEL:GFP:CONF:EXI? Returns: NULL
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

Signal - Signal Configuration (SONET/SDH)

:SENSe:DATA:TELEcom:POSiTion	
Description	This command sets the RX mapping position for decoupled test. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SENSe:DATA:TELEcom:POSiTion <wsp><Positionid>, <Position1>,[<Position2>],[<Position3>],[<Position4>],[<Position5>]
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. HOPPosition: HOP (High Order Path) LOPPosition: LOP (Low Order Path) Position1: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the mapping position values. Position2: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position 2 value. Position3: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position 3 value. Position4: The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position 4 value. Position5: The program data syntax for the sixth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position 5 value.

:SENSe:DATA:TELecom:POStion

Response Syntax	<Information>
Example(s)	SOUR:DATA:TEL:POS HOPP,1, 1, 1, 3,1 SOUR:DATA:TEL:POS? HOPP Returns: (1, 1, 1, 3,1)
See Also	SENSe:DATA:TELecom:HOP:TYPE

:SENSe:DATA:TELecom:POSition?	
Description	This query returns the RX mapping position for decoupled test. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SENSe:DATA:TELecom:POSition? <wsp><Positionid>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. HOPPosition: HOP (High Order Path) LOPPosition: LOP (Low Order Path)
Response Syntax	<Position>
Response(s)	Position: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:POS HOPP,1, 1, 1, 3,1 SOUR:DATA:TEL:POS? HOPP Returns: (1, 1, 1, 3,1)
See Also	SENSe:DATA:TELecom:HOP:TYPE?

:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE

Description	This command enables/disables the STS/AU Path TCM UNEQ. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > STS/AU > TC-UNEQ-P/HPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB ON SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE?

:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE?	
Description	This query returns the enable/disable status of STS/AU Path TCM UNEQ. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > STS/AU > TC-UNEQ-P/HPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB ON SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE

:SENSe:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE	
Description	This command enables/disables the VT/TU Path TCM UNEQ. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > VT/TU > TC-UNEQ-V/LPTC-UNEQ
Syntax	:SENSe:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB ON SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE?

:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE?	
Description	This query returns the enable/disable status of the VT/TU Path TCM UNEQ. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > VT/TU > TC-UNEQ-V/LPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB ON SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABLE

:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABLE

Description	This command enables/disables the RX TCM for Higher rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABLE?

:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABLE?	
Description	This query returns the status of RX TCM for Higher rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABLE

:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

Description	This command enables/disables the RX TCM for Lower rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?	
Description	This query returns the status of the RX TCM for Lower rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

:SOURce:DATA:TELecom:BACKground:BULK

Description	This command enables/disables the Bulk Filled Overwrite Enable feature. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OC-n > Signal > Signal Configuration - STS-1 - Overwrite Fixed Stuff
Syntax	:SOURce:DATA:TELecom:BACKground:BULK <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Overwrite Fixed Stuff feature. ON - Enables Bulk overwrite Fixed Stuff status OFF - Disables bulk overwrite Fixed Stuff status
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:BACK:BULK ON SOUR:DATA:TEL:BACK:BULK? Returns: 1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP

:SOURce:DATA:TELecom:BACKground:BULK?	
Description	This query returns the status of the Bulk Filled Overwrite Enable feature. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OC-n > Signal > Signal Configuration - STS-1 - Overwrite Fixed Stuff
Syntax	:SOURce:DATA:TELecom:BACKground:BULK?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Bulk Filled Overwrite Enable feature. 1 - Bulk overwrite fixed Stuff Enabled. 0 - Bulk overwrite fixed Stuff Disabled.
Example(s)	SOUR:DATA:TEL:BACK:BULK ON SOUR:DATA:TEL:BACK:BULK? Returns: 1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELecom:BACKground:COMPutation

Description	This command selects of the computation method available for embedded OC-192/STM-64. At *RST condition, this value set to M1ONLY Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - REI-L/MS-REI Computation Method
Syntax	:SOURce:DATA:TELecom:BACKground:COMPutation <wsp><COMPutation>
Parameter(s)	COMPutation: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the payload computation method. M1only: M1. M0M1: the M1 and M0
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:BACK:COMP M0M1 SOUR:DATA:TEL:BACK:COMP? Returns: M0M1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELeom:BACKground:COMPutation?	
Description	This query returns the computation method available for embedded OC-192/STM-64. At *RST condition, this value set to M1ONLY. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - REI-L/MS-REI Computation Method
Syntax	:SOURce:DATA:TELeom:BACKground:COMPutation?
Response Syntax	<Computation>
Response(s)	Computation: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the computation method. M1ONLY, M1 as computation method is selected. M0M1, M1 and M0 as computation method is selected.
Example(s)	SOUR:DATA:TEL:BACK:COMP M0M1 SOUR:DATA:TEL:BACK:COMP? Returns: M0M1
See Also	SOURce:DATA:TELeom:BACKground:SDHSonet:HOP

:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP

Description	This command selects the High Order Path (HOP) background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP <wsp><Background Traffic>
Parameter(s)	Background Traffic: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) background traffic. AIS: Alarm Indication Signal UNEQUIPPED1: Unequipped EQUIPPED1: Equipped
Response Syntax	<Computation>
Example(s)	SOUR:DATA:TEL:BACK:SDHS:HOP EQUIPPED1 SOUR:DATA:TEL:BACK:SDHS:HOP? Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPUtation

:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?	
Description	This query returns the High Order Path (HOP) background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?
Response Syntax	<Background traffic>
Response(s)	Background traffic: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the High Order Path (HOP) background traffic. AIS, Alarm Indication Signal (AIS) as background traffic is selected. UNEQUIPPED1, Unequipped as background traffic is selected. EQUIPPED1, Equipped as background traffic is selected.
Example(s)	SOUR:DATA:TEL:BACK:SDHS:HOP EQUIPPED1 SOUR:DATA:TEL:BACK:SDHS:HOP? Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPUtation?

:SOURce:DATA:TELeom:BACKground:SDHSonet:LOP

Description	This command selects the Low Order Path (LOP) background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - Background
Syntax	:SOURce:DATA:TELeom:BACKground:SDHSonet:LOP <wsp><Background Traffic>
Parameter(s)	Background Traffic: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the LOP (Low Order Path) background traffic. AIS: Alarm Indication Signal UNEQUIPPED1: Unequipped EQUIPPED1: Equipped
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:BACK:SDHS:LOP EQUIPPED1 SOUR:DATA:TEL:BACK:SDHS:LOP? Returns: EQUIPPED1
See Also	SOURce:DATA:TELeom:BACKground:COMPUtation?

:SOURce:DATA:TELEcom:BACKground:SDHSonet:LOP?	
Description	This query returns the Low Order Path (LOP) background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - Background
Syntax	:SOURce:DATA:TELEcom:BACKground:SDHSonet:LOP?
Response Syntax	<Background traffic>
Response(s)	Background traffic: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the LOP (Low Order Path) background traffic. AIS, Alarm Indication Signal (AIS) as background traffic is selected. UNEQUIPPED1, Unequipped as background traffic is selected. EQUIPPED1, Equipped as background traffic is selected.
Example(s)	SOUR:DATA:TEL:BACK:SDHS:LOP EQUIPPED1 SOUR:DATA:TEL:BACK:SDHS:LOP? Returns: EQUIPPED1
See Also	SOURce:DATA:TELEcom:BACKground:COMPUtation

:SOURce:DATA:TELEcom:POSition

Description	This command sets the TX mapping position. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot For SONET HOP: The STS-1 is defined using the timeslot followed by the two-level [STS-3#,STS-1#] convention. For SONET LOP: The VT Number is defined using the VTG followed by the VT number. For SDH HOP: The AU is defined using a 2 to 5 level convention E,D,C,B,A depending on the rate of the STM-n used. E: the AUG-64 are numbered 1 to 4 (Only used with rate STM-256) D: the AUG-16 are numbered 1 to 4 C: the AUG-4 are numbered 1 to 4 B: the AUG-1 are numbered 1 to 4 A: the AU-3 are numbered 1 to 3. For AU-3 in STM-0e, A=0. For SDH LOP: The TU is defined using a 2 or 3 level convention K,L,M depending on the rate of the AU-4 or AU-3 used. K: the TUG-3 are numbered 1 to 3 L: the TUG-2 are numbered within the TUG-3 0 or from 1 to 7 M: the TU-2, TU-12, TU-11 are numbered within the TUG-2 1, 1 to 3, 1 to 4 respectively
Syntax	:SOURce:DATA:TELEcom:POSition <wsp><Positionid>, <Position1>,[<Position2>],[<Position3>],[<Position4>],[<Position5>]

:SOURce:DATA:TELEcom:POStion	
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. HOPPosition: HOP (High Order Path) LOPPosition: LOP (Low Order Path) Position1: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For SONET HOP: Sets the Timeslot number. However, the next two parameters are mandatory and will overwrite this value for the corresponding timeslot number. For SONET LOP: Sets the VTG number. For SDH HOP : Sets the number for either AUG-16 for STM-64, AUG-4 for STM-16, AUG-1 for STM-4, or AU-3 for STM-1 For SDH LOP: The number for the highest TUG level (2 or 3 level convention). Position2: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For SONET HOP: Sets the STS-3 number. For SONET LOP: Sets the VT number. For SDH HOP: Sets the number for either AUG-4 for STM-64, AUG-1 for STM-16, or AU-3 for STM-4 For SDH LOP: The number for either the second TUG level (3 level convention) or TU number (2 level convention). Position3: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For SONET HOP: Sets the STS-1 number. For SONET LOP: This parameter is not used. For SDH HOP: Sets the number for either AUG-1 for STM-64, or AU-3 for STM-16 For SDH LOP: The TU number (3 level convention).

:SOURce:DATA:TELEcom:POSition

Parameter(s)	Position4: The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For SONET HOP: This parameter is not used. For SONET LOP: This parameter is not used. For SDH LOP: Sets the number for AU-3 for STM-64 For SDH LOP: This parameter is not used. Position5: The program data syntax for the sixth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is no longer used.
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:POS HOPP, 2, 1, 2 SOUR:DATA:TEL:POS? HOPP Returns: 2:[1,2]
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

:SOURce:DATA:TELecom:POSition?	
Description	This query returns the TX mapping position. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SOURce:DATA:TELecom:POSition? <wsp><Positionid>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. HOPPosition: HOP (High Order Path) LOPPosition: LOP (Low Order Path)
Response Syntax	<Position>
Response(s)	Position: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:POS HOPP, 2, 1, 2 SOUR:DATA:TEL:POS? HOPP Returns: 2:[1,2]
See Also	SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

**:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMess
age**

Description	This command selects the Bits 5-8 (Synchronization Status Message) At *RST condition, this value is set to QUNKNOWN0000. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - Synchronization Status Message (S1)
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMessage <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Bits 5-8 (Synchronization Status Message). QUNKNOWN0000: Quality Unknown (0000) Bits Synchronization Status Message. ST10001: ST1 (0001) Bits Synchronization Status Message. RESERVED0010: RESERVED (0010) RESERVED0011: Reserved (0011) TNC0100: TNC (0100) RESERVED0101: Reserved (0101) RESERVED0110: Reserved (0110) ST20111: ST2 (0111) RESERVED1000: Reserved (1000) RESERVED1001: Reserved (1001) ST31010: ST3 (1010) RESERVED1011: Reserved (1011) SMC1100: SMC (1100) PNO1101: PNO (1101) ST3E1110: ST3E (1110) DUSYNCH1111: Don't Use for Synchronization (1111)

SCPI Command Reference

Signal - Signal Configuration (SONET/SDH)

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMess age	
Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM QUNKNOWN0000 SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM? Returns: QUNKNOWN0000
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

**:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMess
age?**

Description	This query returns Bits 5-8 (Synchronization Status Message). At *RST condition, this value is set to QUNKNOWN0000. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - Synchronization Status Message (S1)
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage?
Response Syntax	<Type>

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:S:BITS:SSMess age?	
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Sets the Bits 5-8 (Synchronization Status Message). QUNKNOWN0000 - Quality Unknown (0000) Bits Synchronization Status Message is selected. ST10001 - ST1 (0001) Bits Synchronization Status Message is selected. RESERVED0001 -RESERVED (0010) Bits Synchronization Status Message is selected. RESERVED0011 - Reserved (0011) Bits Synchronization Status Message is selected. TNC0100 - TNC (0100) Bits Synchronization Status Message is selected. RESERVED0101- Reserved (0101) Bits Synchronization Status Message is selected. RESERVED0110- Reserved (0110) Bits Synchronization Status Message is selected. ST20111 - ST2 (0111) Bits Synchronization Status Message is selected. RESERVED1000 - RESERVED (1000) Bits Synchronization Status Message is selected. RESERVED1001- Reserved (1001) Bits Synchronization Status Message is selected. ST31010 - ST3 (1010) Bits Synchronization Status Message is selected. RESERVED1010 - RESERVED (SEC) (1011) Bits Synchronization Status Message is selected. SMC1100 - SMC (1100) Bits Synchronization Status Message is selected. ST3E1101 - ST3E (1101) Bits Synchronization Status Message is selected. PNO1110 - PNO (1110) Bits Synchronization Status Message is selected. DUSYNCH1111- Don't Use for Synchronization (1111) Bits Synchronization Status Message is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM QUNKNOWN0000 SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM? Returns: QUNKNOWN0000
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

Description	This command enables/disables the TX TCM for Higher rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?	
Description	This query returns the status of TX TCM for Higher rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

Description	This command enables/disables the TX TCM for Lower rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?	
Description	This query returns the status of TX TCM for Lower rates. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

Traces (SONET/SDH)

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPeCted	
Description	This command sets the TCM Access Point Identifier expected message High Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPeCted[<wsp> <Message>]
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Label>
Example(s)	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPeCted tcmmessage SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPeCted? Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern?

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?	
Description	This command sets the TCM Access Point Identifier expected message High Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected TCM Access Point Identifier message for Path Overhead.
Example(s)	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected tcmmessage SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected? Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim

Description	This command enables/disables the TCMIM status for TCM Access Point Identifier High Order Path. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the status of Trace Identifier Mismatch (TIM). ON, enables the status of Trace Identifier Mismatch (TIM) OFF, disables the status of Trace Identifier Mismatch (TIM)
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim ON SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?	
Description	This query returns the the TCMIM status for TCM Access Point Identifier for High Order Path. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Trace Identifier Mismatch (TIM). 1, TCM Access Point Identifier is enabled. 0, TCM Access Point Identifier is disabled.
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim ON SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Low Path Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM ON SENS:DATA:TEL:SDHS:LOP:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTer n	
Description	This command sets the Trace Identifier Mismatch value in 16 or 64 byte format for Low Path Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Format Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATtern <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT B16 SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT? Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATtern:B

Description	This command sets the expected message for 16 OR 64 bytes format for Low Path Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATtern:B <wsp> <Pattern> , <Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B B16, tyghjg SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B?

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B?	
Description	This query returns the expected message for 16 or 64 bytes format for Low Path Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Expected
Syntax	:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM:PATtern:B? <wsp> <Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for 16 or 64 bytes format for Low Path Overhead
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B B16, tyghjg SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B

**:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTer
n?**

Description	This query returns the format expected for Low Path Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Format Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTer?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format expected in the J1 trace for Low Path Overhead B16, 16 bytes format for Low Path Overhead is selected. B64, 64 bytes format for Low Path Overhead is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT B16 SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT? Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTer

:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM?	
Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Low Path Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM
Syntax	:SENSe:DATA:TELEcom:SDHSonet:LOP:OVERhead:TIM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM) for Low Path Overhead. 1 - Trace Identifier Mismatch (TIM) for Low Path Overhead is enabled. 0 - Trace Identifier Mismatch (TIM) for Low Path Overhead is disabled.
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM ON SENS:DATA:TEL:SDHS:LOP:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPeCted

Description	This command sets the TCM Access Point Identifier expected message Low Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Expected Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPeCted[<wsp><Message>]
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPeCted tcmmessage SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPeCted? Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern?

:SENSe:DATA:TELeom:SDHSonet:LOP:TCAPident:EXPected?	
Description	This command sets the TCM Access Point Identifier expected message Low Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Expected Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Expected
Syntax	:SENSe:DATA:TELeom:SDHSonet:LOP:TCAPident:EXPected?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected TCM Access Point Identifier message for Path Overhead.
Example(s)	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected tcmmessage SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected? Returns: tcmmessage
See Also	SENSe:DATA:TELeom:SDHSonet:SECTion:OVERhead:TIM:PATtern

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim

Description	This command enables/disables the TCMIM status for TCM Access Point Identifier Low Order Path. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim ON SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?	
Description	This query returns the TCMIM status for TCM Access Point Identifier for Low Order Path. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the TCM Access Point Identifier for Path Overhead. ENABLE, status of the TCM Access Point Identifier is enabled. DISABLE, tatus of the TCM Access Point Identifier is disabled.
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim ON SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Path Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM
Syntax	:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM ON SENS:DATA:TEL:SDHS:PATH:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern	
Description	This command sets the Trace Identifier Mismatch value of J1 in 16 or 64 byte format for Path Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Format Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT B16 SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT? Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:Pattern:B

Description	This command sets the expected message for 16 OR 64 bytes format of J1 trace for Path Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:Pattern:B <wsp> <Pattern>, <Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B B16,tyghjg SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?	
Description	This query returns the expected message for 16 or 64 bytes format of J1 trace for Path Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B? <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for 16 or 64 bytes format for Path Overhead.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B B16, tyghjg SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATTern?

Description	This query returns the format expected in the J1 trace for Path Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Format Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Format
Syntax	:SENSe:DATA:TELEcom:SDHSonet:PATH:OVERhead:TIM:PATTern?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format expected in the J1 trace for Path Overhead. B16, 16 bytes format is selected. B64, 64 bytes format is selected.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT B16 SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT? Returns: B16
See Also	SENSe:DATA:TELEcom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?	
Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Path Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM) for Path Overhead. 1 - TIM enabled. 0 - TIM disabled.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM ON SENS:DATA:TEL:SDHS:PATH:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Section Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM ON SENS:DATA:TEL:SDHS:SECT:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA TTern	
Description	This command sets the format expected in the J0 trace for Section Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Format Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA TTern <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J0 trace for Section overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATTern B16 SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATTern? Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PA TTern ?

**:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA
TTern:B**

Description	This command sets the expected message for 16 or 64 bytes format of J0 trace for Section Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B <wsp> <Pattern> , <Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J0 trace for Section overhead. B16: the 16 bytes format. B64: the 64 bytes format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message for 16 or 64 bytes format for Section overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATTern:B B16, tyghjg SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATTern:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA TTern:B?	
Description	This query returns the expected message for 16 or 64 bytes format of J0 trace for Section Overhead. At *RST condition, this value is set to EXFO SONET/SDH. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Expected Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATtern:B? <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format expected in the J0 trace for Section overhead. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message for 16 or 64 bytes format for Section Overhead.
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B B16, tyghjg SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B? B16 Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATtern:B

**:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA
TTern?**

Description	This query returns the format expected in the J0 trace for Section Overhead. At *RST condition, this value is set to B16. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Format Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PA TTern?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format expected in the J0 trace for Section Overhead. B16, 16 bytes format is selected. B64, 64 bytes format is selected.
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT B16 SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT? Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PA TT

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?	
Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Section Overhead. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Trace Identifier Mismatch (TIM) for Section Overhead. 1- TIM is Enabled 0 - TIM is Disabled
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM ON SENS:DATA:TEL:SDHS:SECT:OVER:TIM? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM

**:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:
MESSAge**

Description	This command sets the TCM Access Point Identifier message High Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSAge[<wsp> <Message>]
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the 16 or 64 byte format for TCM Access Point Identifier message.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSAge tcmmessage SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSAge? Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATtern:B16?

:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSAge?	
Description	This query returns the TCM Access Point Identifier message High Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSAge?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSAge tcmmessage SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSAge? Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATtern:B16

:SOURce:DATA:TELeom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern

Description	This command sets the J1 and J2 trace format for Lower order Path Overhead. At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Format Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Format
Syntax	:SOURce:DATA:TELeom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J2 trace for Low Path overhead. 1BYTE: the 1 bytes format. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT B16 SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT? Returns: B16
See Also	SOURce:DATA:TELeom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern?

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern:B

Description	This command sets the J2 and J1 trace value/message to be generated in selected format for Low Path Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Generated Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATtern:B <wsp><Pattern>,<Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J2 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1BYTE byte format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the 16 or 64 byte format for J2 trace.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B B16, RRWEREW SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern:B?

:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATTERN:B?

Description	This query returns the J2 and J1 trace value/message to be generated in selected format for Low Path Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Generated Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:LOP:OVERhead:J[1..n]:PATTERN:B? <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J2 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1BYTE byte format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the J2 trace for Low Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B B16, RRWEREW SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTERN:B

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern?

Description	This query returns the J2 and J1 trace format for Lower order Path Overhead. At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Format Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format for J2 trace for Lower Order Path Overhead. B16, 16 bytes format is selected. B64, 64 bytes format is selected. 1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT B16 SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT? Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTIon:OVERhead:J[1..n]:PATTern

:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage

Description	This command sets the TCM Access Point Identifier message Low Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Generated Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage[<wsp><Message>]
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the 16 or 64 byte format for TCM Access Point Identifier message.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage tcmmessage SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage? Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATtern:B16?

:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSAge?	
Description	This query returns the TCM Access Point Identifier message Low Order Path. At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Generated Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSAge?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSAge tcmmessage SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSAge? Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATtern:B16

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:P
ATtern

Description	This command sets the J1 trace format for Path Overhead At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern <wsp> <Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J1 trace for Path overhead. 1BYTE: the 1 bytes format. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT B16 SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT? Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?

:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:P ATtern:B	
Description	This command sets the J1 trace value/message to be generated in selected format for Path Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B <wsp><Pattern>,<Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1BYTE byte format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the 16 or 64 byte format for J1 trace.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B B16,RRWEREW SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

**:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:P
ATtern:B?**

Description	This query returns the J1 trace value/message to be generated in selected format for Path Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B? <wsp> <Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J1 trace for Path overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1BYTE byte format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the J1 trace value/message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B B16,RRWEREW SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:P ATtern?	
Description	This query returns the J1 trace format for Path Overhead. At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format for J1 trace for Path Overhead. B16, 16 bytes format is selected. B64, 64 bytes format is selected. 1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT B16 SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT? Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern

:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern

Description	This command sets the J0 trace format for Section Overhead. At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern <wsp> <Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J0 trace for Section overhead. 1BYTE: the 1 bytes format. B16: the 16 bytes format. B64: the 64 bytes format.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT B16 SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT? Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J1:PATtern?

:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern:B	
Description	This command sets the J0 trace value/message to be generated in selected format for Section Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern:B <wsp><Pattern>, <Message>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J0 trace for Section overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1 byte format. Message: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the 16 or 64 byte format for J0 trace.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B B16,RRWEREW SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J1:PATtern:B?

:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

Description	This query returns the J0 trace value/message to be generated in selected format for Section Overhead. At *RST condition, this value is set to 01. Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B? <wsp><Pattern>
Parameter(s)	Pattern: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the format for J0 trace for Section overhead. B16: the 16 bytes format. B64: the 64 bytes format. 1BYTE: the 1 byte format.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the J0 trace value/message for Section Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B B16,RRWEREW SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B? B16 Returns: RRWEREW
See Also	SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J1:PATTern:B?

:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern?

Description	This query returns the J0 trace format for Section Overhead. At *RST condition, this value is set to 1BYTE. Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Format
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SECTion:OVERhead:J[1..n]:PATtern?
Response Syntax	<Pattern>
Response(s)	Pattern: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the format for J0 trace for Section Overhead. B16, 16 bytes format is selected. B64, 64 bytes format is selected. 1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT B16 SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT? Returns: B16
See Also	SOURce:DATA:TELEcom:SDHSonet:PATH:OVERhead:J1:PATtern

1588 PTP (Client)

:FETCh:DATA:TELeom:PACKetsync:PTP:DELaY:MODE?

Description	This query returns the Delay Mode. At *RST condition, this value is set to One -way. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Delay Mode
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:DELaY:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the delay Mode. PTPONEWAY, returns one way mode PTPTWOWAY, returns two way mode
Example(s)	FETC:DATA:TEL:PACK:PTP:DEL:MODE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:MODE?

:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?	
Description	This query returns the Framing. At *RST condition, this value is set to UDP/IPv4. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Framing
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Framing: PTPUDPIPv4: UDP/IPv4 is selected as Framing. PTPUDPIPv6: UDP/IPv6 is selected as Framing. PTPETHERNET: Ethernet is selected as Framing.
Example(s)	FETC:DATA:TEL:PACK:PTP:FRAM?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:NEGotation:STATus?

:FETCh:DATA:TELEcom:PACKetsync:PTP:LEASe:DURation?

Description	This query returns the Lease Duration Parameter. At *RST condition, this value is set to 300 seconds. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Service Duration - Lease Duration(s)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:LEASe:DURation?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Lease Duration Parameter.
Example(s)	FETC:DATA:TEL:PACK:PTP:LEAS:DUR?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV?

:FETCh:DATA:TELeom:PACKetsync:PTP:MECHanism?	
Description	This query returns the Mechanism. At *RST condition, this value is set to Request-Response Mechanism Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Mechanism
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:MECHanism?
Response Syntax	<Mechanism>
Response(s)	Mechanism: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the PTP1588 mechanism. PTPREQRESP, returns PtpReqResp as a test type.
Example(s)	FETC:DATA:TEL:PACK:PTP:MECH?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:PROFile?

:FETCh:DATA:TELEcom:PACKetsync:PTP:MODE?

Description	This query returns the Pkt Mode. At *RST condition, this value is set to Unicast. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Pkt Mode
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:MODE?
Response Syntax	<TransportMode>
Response(s)	TransportMode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Pkt Mode PTPUNICAST, Unicast PTPMULTICAST, Multicast PTPMIXED, Mixed
Example(s)	FETC:DATA:TEL:PACK:PTP:MODE?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:DElay:MODE?

:FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?	
Description	This query returns the Negotiation Status. At *RST condition, this value is set to Request Granted/Session Canceled/No Reply/Pending/Inactive Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Negotiation Status
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Negotiation Status. NOREPLY, No message is received from the Grand Master following transmission of 3 Signaling requests for a message type. REQPENDING, Unicast negotiation has started and no message has been received from the Grand Master. REQGRANTED, All the Signaling request types have been granted. REQDENIED, The Signaling grant message has not been granted. GRANTCANCELLED, The Grand Master has canceled the Unicast session. INACTIVE, The Unicast negotiation is not active.
Example(s)	FETC:DATA:TEL:PACK:PTP:NEG:STAT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:LEASe:DURation?

:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?

Description	This query returns the PTP Profile. At *RST condition, this value is set to ITU G.8265.1. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?
Response Syntax	<Profile>
Response(s)	Profile: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the profile type. PTPTG82651,ITUG.8265.1 is selected as profile type.
Example(s)	FETC:DATA:TEL:PACK:PTP:PROF?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?

:FETCh:DATA:TELecom:PACKetsync:PTP:RENewal:INTerval?	
Description	This query returns the Renewal Interval Parameter. At *RST condition, this value is set to 150 seconds. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Service Duration - Renewal Interval(s)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RENewal:INTerval?
Response Syntax	<Interval>
Response(s)	Interval: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Renewal Interval Parameter
Example(s)	FETC:DATA:TEL:PACK:PTP:REN:INT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?

Description	This query returns the PTP Link status. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > 1588 PTP > LINK
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the PTP Link status.
Example(s)	FETC:DATA:TEL:PACK:PTP:STAT?
See Also	FETCh:DATA:TELecom:CPRI:PORT:SState?

:SOURce:DATA:TELeom:PACKetsync:PTP:CLOCK:IP	
Description	This command sets the Boundary Clock / Grand Master IPv4 address. At *RST condition, this value is set to 10.10.0.1 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:CLOCK:IP <wsp><IP Address>
Parameter(s)	IP Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address of the Clock
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IP 10.10.0.1 SOUR:DATA:TEL:PACK:PTP:CLOC:IP? Returns: 10.10.0.1
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IP?

Description	This query returns the Boundary Clock / Grand Master IPv4 address. At *RST condition, this value is set to 10.10.0.1 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IP?
Response Syntax	<IP Address>
Response(s)	IP Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP address of the Clock.
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IP 10.10.0.1 SOUR:DATA:TEL:PACK:PTP:CLOC:IP? Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IPVersion	
Description	This command sets the Boundary Clock / Grand Master IPv6 address. At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:0000:0000 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IPVersion <wsp><IPAddress>
Parameter(s)	IPAddress: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. IPv6 address to set
Response Syntax	<IP Address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV 2000:1000:0001:1190:2333:1999:0000:0001 SOUR:DATA:TEL:PACK:PTP:CLOC:IPV? Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IPVersion?

Description	This query returns the Boundary Clock / Grand Master IPv6 address. At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:0000:0000 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCK:IPVersion?
Response Syntax	<IPAddress>
Response(s)	IPAddress: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. IPv6 address of the Clock
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV 2000:1000:0001:1190:2333:1999:0000:0001 SOUR:DATA:TEL:PACK:PTP:CLOC:IPV? Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled	
Description	This command initiates the Grand Master Connection process. At *RST condition, this value is set Enable OFF. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Connect
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CONN:ENAB 1 SOUR:DATA:TEL:PACK:PTP:DEL:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce

:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABLEd?	
Description	This query returns the status of Grand Master Connection process. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Connect
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:CONN:ENAB ON SOUR:DATA:TEL:PACK:PTP:CONN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

:SOURce:DATA:TELEcom:PACKetsync:PTP:DOMain	
Description	This command sets the Domain Configurable. At *RST condition, this value is set to Telecom Profile Range: 0-255 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Domain
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:DOMain <wsp><Domain>
Parameter(s)	Domain: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Domain Configurable. Range from 0 to 255 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:DOM 9 SOUR:DATA:TEL:PACK:PTP:DOM? Returns: 9
See Also	SOURce:DATA:TELEcom:PACKetsync:PTP:GMIPaddress

:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?

Description	This query returns the Domain. At *RST condition, this value is Set to Telecom Profile Range: 0-255 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Domain
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?[<wsp><Domain>]
Parameter(s)	Domain: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns Domain Configured. This parameter is optional. If no token is specified, the Domain Configured value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Domain>
Response(s)	Domain: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Domain number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:DOM 9 SOUR:DATA:TEL:PACK:PTP:DOM? Returns: 9
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?

:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel	
Description	This command sets the PTP IPv6 Flow Label value. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Flow Label
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel <wsp><Flow Label>
Parameter(s)	Flow Label: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Flow label value to set
Response Syntax	<Domain>
Example(s)	SOUR:DATA:TEL:PACK:PTP:FLAB 108 SOUR:DATA:TEL:PACK:PTP:FLAB? Returns: 108

:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel?

Description	This query returns the PTP IPv6 Flow Label value. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Flow Label
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel?
Response Syntax	<Flow Label>
Response(s)	Flow Label: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Flow Label for IPv6 protocol
Example(s)	SOUR:DATA:TEL:PACK:PTP:FLAB 108 SOUR:DATA:TEL:PACK:PTP:FLAB? Returns: 108

:SOURce:DATA:TELeom:PACKetsync:PTP:GMADdress:IPVersi on	
Description	This command sets the Grand Master IPv6 address. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMADdress:IPVersion <wsp><IPAddress>
Parameter(s)	IPAddress: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. IPv6 address to set
Response Syntax	<Flow Label>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMAD:IPV 2000:1000:0001:1190:2333:1999:0000:0001 SOUR:DATA:TEL:PACK:PTP:GMAD:IPV? Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMADdress:IPVersion?

Description	This query returns the Grand Master IPv6 address. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMADdress:IPVersion?
Response Syntax	<IPAddress>
Response(s)	IPAddress: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. IPv6 address of the Grand Master
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMAD:IPV 2000:1000:0001:1190:2333:1999:0000:0001 SOUR:DATA:TEL:PACK:PTP:GMAD:IPV? Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMIPaddress	
Description	This command sets the Grand Master IPv4 address. At *RST condition, this value is set Set by user Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMIPaddress <wsp><IPAddress>
Parameter(s)	IPAddress: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address of the Grand Master Clock.
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMIP 10.10.0.1 SOUR:DATA:TEL:PACK:PTP:GMIP? Returns: 10.10.0.1
See Also	SOURce:DATA:TELEcom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?

Description	This query returns the Grand Master IPv4 address. At *RST condition, this value is set Set by user. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?
Response Syntax	<IPAddress>
Response(s)	IPAddress: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Grand Master IP address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMIP 10.10.0.1 SOUR:DATA:TEL:PACK:PTP:GMIP? Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold	
Description	The command sets the IPDV Threshold Parameter. At *RST condition, this value is set 2 msec. Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - IPDV Threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPDV Threshold Parameter which defines the inter packet delay variation threshold used to raise the Unusable message alarm.
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPDV:THR 5.0 SOUR:DATA:TEL:PACK:PTP:IPDV:THR? Returns: 5.0
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC

:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?

Description	This query returns the IPDV Threshold Parameter. At *RST condition, this value is set to 2 msec. Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - IPDV Threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Returns IPDV Threshold.This parameter is optional. If no token is specified, the IPDV Threshold value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the IPDV Threshold Parameter shall determine the threshold used to raise an Alarm related to Packet Delay Variation.
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPDV:THR 5.0 SOUR:DATA:TEL:PACK:PTP:IPDV:THR? Returns: 5.0
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC?

:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds	
Description	This command sets the PTP TOS/DS Value. At *RST condition, this value is set 0x00 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - IP TOS/DS / Traffic Class (TOS/DS)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds <wsp><TOSDOS>
Parameter(s)	TOSDOS: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the TOS/DS value.
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPT #H1 SOUR:DATA:TEL:PACK:PTP:IPT? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:TEST:TYPE

:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

Description	This query returns the PTP TOS/DS Value. At *RST condition, this value is set to 0x00 Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - IP TOS/DS
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?
Response Syntax	<IpToSds>
Response(s)	IpToSds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. returns the PTP IP TOS DS Value
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPT #H1 SOUR:DATA:TEL:PACK:PTP:IPT? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:TEST:TYPE?

:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC	
Description	This command sets the G-8275.1 Multicast MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC <wsp> <MAC address>
Parameter(s)	MAC address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the MAC address.
Response Syntax	<IpToSds>
Example(s)	SOUR:DATA:TEL:PACK:PTP:MMAC 01:1B:19:00:00:00 SOUR:DATA:TEL:PACK:PTP:MMAC? Returns: 01:1B:19:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess

:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC?

Description	This query returns the G-8275.1 Multicast MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:MMAC?
Response Syntax	<MAC address>
Response(s)	MAC address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:MMAC 01:1B:19:00:00:00 SOUR:DATA:TEL:PACK:PTP:MMAC? Returns: 01:1B:19:00:00:00
See Also	SOURce:DATA:TELEcom:PACKetsync:UDMA:ADDRes?

:SOURce:DATA:TELEcom:PACKetsync:PTP:PROFile	
Description	This command sets the the PTP Profile. At *RST condition, this value is set to ITU G.8265.1. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:PROFile <wsp> <Profile>
Parameter(s)	Profile: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the PTP Profile. PTPTG82651: G.8265.1 PTPTG82751: G.8275.1 PTPTG82752: G.8275.2
Response Syntax	<MAC address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:PROF PTPTG82751 SOUR:DATA:TEL:PACK:PTP:PROF? Return: PTPTG82751

:SOURce:DATA:TELeom:PACKetsync:PTP:PROFile?

Description	This query returns the PTP Profile. At *RST condition, this value is set to ITU G.8265.1. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:PROFile?
Response Syntax	<Profile>
Response(s)	Profile: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the PTP Profile Telecom G.8265.1/G.8275.1/G.8275.2. PTPTG82651: G.8265.1 PTPTG82751: G.8275.1 PTPTG82752: G.8275.2
Example(s)	SOUR:DATA:TEL:PACK:PTP:PROF PTPTG82751 SOUR:DATA:TEL:PACK:PTP:PROF? Return: PTPTG82751

:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:EXPeCted	
Description	This command configure an Expected Quality Level value. At *RST condition, this value is set to QL-PRS. Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - Expected QL
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:QL:EXPeCted <wsp><Quality Level>
Parameter(s)	Quality Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Configure an Expected Quality Level value. QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization QLPRCPRS6: QL-PRC/PRS PRS traceable (Recommendation G.811). QLSSUAST2: QL-SSU-A/ST2 Traceable to Stratum 2 (Recommendation G.812, Type II). QLSSUBST3E: QL-SSU-B/ST3E Traceable to Stratum 3E (Recommendation G.812, Type III).

:SOURce:DATA:TELeom:PACKetsync:PTP:QL:EXPeCted

Response Syntax	<Profile>
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:EXP QLPRS SOUR:DATA:TEL:PACK:PTP:QL:EXP? Returns: QLPRS
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:VERDict:ENABled?

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?	
Description	This query returns the Expected Quality Level value. At *RST condition, this value is set to QL-PRS. Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?
Response Syntax	<Quality Level>

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPeCted?

Response(s)	Quality Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Expected Quality Level value. QL-PRS, returns QL-PRS as Quality Level QL-STU/UNK, returns QL-STU/UNK as Quality Level QL-PRC, returns QL-PRC as Quality Level QL-ST2, returns QL-ST2 as Quality Level QL-INV3, returns QL-INV3 as Quality Level QL-SSU-A/TNC 90, returns QL-SSU-A/TNC as Quality Level QL-INV5, returns QL-INV5 as Quality Level QL-INV6, returns QL-INV6 as Quality Level QL-SSU-B, returns QL-SSU-B as Quality Level QL-INV9, returns QL-INV9 as Quality Level QL-ST3E, returns QL-ST3E as Quality Level QL-EEC2/ST3, returns QL-EEC2/ST3 as Quality Level QL-EEC1/SEC, returns QL-EEC1/SEC as Quality Level QL-SMC 106, returns QL-SMC 106 as Quality Level QL-PROV 108, returns QL-PROV 108 as Quality Level QL-DNU/DUS, returns QL-DNU/DUS as Quality Level QLPRCPRS6, returns QL-PRC/PRS as Quality Level QLSSUAST2, returns QL-SSU-A/ST2 as Quality Level QLSSUBST3E, returns QL-SSU-B/ST3E as Quality Level
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:EXP QLPRS SOUR:DATA:TEL:PACK:PTP:QL:EXP? Returns: QLPRS
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELaY:REQuest

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled	
Description	This command enables/disables the QL mismatch monitoring. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - QL Mismatch monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABLEd <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Quality Level>
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB ON SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELaY:REQuest

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?	
Description	This query returns the QL Mismatch Monitoring Enable parameter. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - QL Mismatch monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB ON SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELaY:REQuest?

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce	
Description	This command sets the Announce Rate parameter. At *RST condition, this value is set 1 message/2s (default). Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Announce
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Announce Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:ANN RATE1PER2SEC SOUR:DATA:TEL:PACK:PTP:RATE:ANN? Returns: RATE1PER2SEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

Description	This query returns the Announce Rate parameter. At *RST condition, this value is set to 1 message/2s Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Announce
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Announce Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:ANN RATE1PER2SEC SOUR:DATA:TEL:PACK:PTP:RATE:ANN? Returns: RATE1PER2SEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?

:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:DELAy:REQuest	
Description	This command sets the Delay Request Rate parameter. At *RST condition, this value is set 32 message/s. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Delay-Request
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:DELAy:REQuest <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Delay Request Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ RATE1PERSEC SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ? Returns: RATE1PERSEC
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:QL:MISMatch:ENABLEd

**:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:DELaY:REQue
st?**

Description	This query returns the Delay Request Rate parameter. At *RST condition, this value is set to 32 message/s Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Delay-Request
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:DELaY:REQuest?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Sync Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ RATE1PERSEC SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ? Returns: RATE1PERSEC
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:QL:MISMatch:ENABLEd?

:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:SYNC	
Description	The command sets the Sync Rate parameter. At *RST condition, this value is set 32 message/s. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Sync
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:RATE:SYNC <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Sync Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:SYNC RATE32PERSEC SOUR:DATA:TEL:PACK:PTP:RATE:SYNC? Returns: RATE32PERSEC
See Also	SOURce:DATA:TELEcom:PACKetsync:PTP:IPDV:THReshold

:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:SYNC?

Description	This query returns the Sync Rate parameter. At *RST condition, this value is set to 32 message/s Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Sync
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:RATE:SYNC?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Sync Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:SYNC RATE32PERSEC SOUR:DATA:TEL:PACK:PTP:RATE:SYNC? Returns: RATE32PERSEC
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:IPDV:THReshold?

:SOURce:DATA:TELeom:PACKetsync:PTP:RECeipt:TIMEout	
Description	This command sets the Receipt Timeout Parameter. At *RST condition, this value is set 3. Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - Receipt Timeout
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:RECeipt:TIMEout <wsp><Timeout>
Parameter(s)	Timeout: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Receipt Timeout. MAXimum, sets Receipt Timeout to its Maximum value. MINimum, sets Receipt Timeout to its Minimum value.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:REC:TIM 5 SOUR:DATA:TEL:PACK:PTP:REC:TIM? Returns: 5
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:RATE:ANNounce

:SOURce:DATA:TELeom:PACKetsync:PTP:RECeipt:TIMEout?

Description	This query returns the Receipt Timeout Parameter. At *RST condition, this value is set to 3. Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - Receipt Timeout
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:RECeipt:TIMEout?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns Receipt Timeout.This parameter is optional. If no token is specified, the Receipt time out value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Timeout>
Response(s)	Timeout: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Receipt Timeout Parameter shall determine the threshold point for raising Alarms related to loss of PTP messages
Example(s)	SOUR:DATA:TEL:PACK:PTP:REC:TIM 5 SOUR:DATA:TEL:PACK:PTP:REC:TIM? Returns: 5
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:RATE:ANNounce?

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess	
Description	This command sets the G-8275.1 User Defined MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined address)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess <wsp> <MAC address>
Parameter(s)	MAC address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the MAC address.
Response Syntax	<Timeout>
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:ADDR 01:02:03:04:05:06 SOUR:DATA:TEL:ETH:NETW:MAC:ADDR? Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:MMAC

:SOURce:DATA:TELeom:PACKetsync:PTP:UDMAc:ADDRess?

Description	This query returns the G-8275.1 User Defined MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined address)
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:UDMAc:ADDRess?
Response Syntax	<MAC address>
Response(s)	MAC address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:ADDR? Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELeom:PACKetsync:MMAC?

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus	
Description	This command enables/disable User Defined MAC Address. At *RST condition, this value is set Enable OFF. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined enable)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<MAC address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:STAT ON SOUR:DATA:TEL:PACK:PTP:DEL:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDReSS

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?

Description	This query returns the status of the User Defined MAC Address. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined enable)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. This query returns the status of the User Defined MAC Address. 1, Grand Master Connection process is enabled. 0, Grand Master Connection process is disabled.
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:STAT? SOUR:DATA:TEL:PACK:PTP:CONN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess?

:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABLEd	
Description	This command Set the PTP Pass/Fail Verdict. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABLEd <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB ON SOUR:DATA:TEL:PACK:PTP:VERD:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC

:SOURce:DATA:TELeom:PACKetsync:PTP:VERDict:ENABLEd?	
Description	This query returns the Global Pass/Fail Verdict. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:VERDict:ENABLEd?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB ON SOUR:DATA:TEL:PACK:PTP:VERD:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:CONNect:ENABLEd

Grand Master Information

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:ACCuracy?	
Description	This query returns Boundary Clock / Grand Master Information Clock Accuracy Description and Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Accuracy Navigation Path: Results > Summary > BC/GM Info > Clock Accuracy
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:ACCuracy? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Accuracy. DESCription CODE
Response Syntax	<Accuracy>
Response(s)	Accuracy: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Clock Accuracy Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:ACC? Desc
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCK:CLASs?

Description	This query returns Boundary Clock / Grand Master Information Clock Class Description and Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Class Navigation Path: Results > Summary > BC/GM Info > Clock Class
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCK:CLASs? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Clock Class. DESCription CODE
Response Syntax	<Class>
Response(s)	Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Clock Class Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:CLAS? Desc
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCK:IDENtity?	
Description	This query returns Boundary Clock / Grand Master Information Clock Identity Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Identity Navigation Path: Results > Summary > BC/GM Info > Identity
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCK:IDENtity? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the identity. DESCription CODE
Response Syntax	<Identity>
Response(s)	Identity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Identity Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:IDEN? CODE
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCk:LMISync?

Description	This query returns Boundary Clock / Grand Master Information Log Message Interval for Sync Description and Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Log Message Interval (Sync) Navigation Path: Results > Summary > BC/GM Info > Log Message Interval (Sync)
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:CLOCk:LMISync? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Log Message Interval For Sync DESCription CODE
Response Syntax	<Log Message Interval For Sync>
Response(s)	Log Message Interval For Sync: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Log Message Interval For Sync Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:LMIS? Desc
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCk:LMIannounce?	
Description	This query returns Boundary Clock / Grand Master Information Log Message Interval for Announce Description and Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Log Message Interval (Announce) Navigation Path: Results > Summary > BC/GM Info > Log Message Interval (Announce)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCk:LMIannounce? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Log Message Interval For Announce DESCription CODE
Response Syntax	<Log Message Interval For Announce>
Response(s)	Log Message Interval For Announce: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Log Message Interval For Announce Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:LMI? Desc
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:MODE?

Description	This query returns Boundary Clock / Grand Master Information Clock Mode Description. Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Mode Navigation Path: Results > Summary > BC/GM Info > Clock Mode
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:MODE? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Clock mode. DESCription CODE
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Mode Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:MODE? DESC
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:PIDentity?	
Description	This query returns Boundary Clock / Grand Master Information Port Identity Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Port Identity Navigation Path: Results > Summary > BC/GM Info > Port Identity
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:PIDentity? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Port identity. DESCription CODE
Response Syntax	<Port Identity>
Response(s)	Port Identity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Port Identity Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PID? code
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCK:PRIOrity:ONE?

Description	This query returns Boundary Clock / Grand Master Information Priority 1 Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Priority 1 Navigation Path: Results > Summary > BC/GM Info > Priority 1
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCK:PRIOrity:ONE? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Priority 1. DESCription CODE
Response Syntax	<Priority 1>
Response(s)	Priority 1: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Priority 1 Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PRI:ONE? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:PRIOrity:TWO?	
Description	This query returns Boundary Clock / Grand Master Information Priority 2 Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Priority 2 Navigation Path: Results > Summary > BC/GM Info > Priority 2
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:PRIOrity:TWO? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Priority 2. DESCription CODE
Response Syntax	<Priority 2>
Response(s)	Priority 2: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Priority 2 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PRI:TWO? CODE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:SREMOVED?

Description	This query returns Boundary Clock / Grand Master Information Steps Removed Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Steps Removed Navigation Path: Results > Summary > BC/GM Info > Steps Removed
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CLOCK:SREMOVED? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Steps Removed. DESCription CODE
Response Syntax	<Steps Removed>
Response(s)	Steps Removed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Steps Removed Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:SREM? CODE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:TSource?	
Description	This query returns Boundary Clock / Grand Master Information Time Source Description and Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Time Source Navigation Path: Results > Summary > BC/GM Info > Time Source
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:TSource? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Time Source. DESCription CODE
Response Syntax	<Time Source>
Response(s)	Time Source: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Time Source Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:TSource? Code
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:ACC UracY?	
Description	This query returns Grand Master Information Clock Accuracy Description and Code. Navigation Path: Setup > 1588 PTP > GM Info > Clock Accuracy Navigation Path: Results > Summary > GM Info > Clock Accuracy
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:ACCUracY? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Clock Accuracy. DESCription CODE
Response Syntax	<Accuracy>
Response(s)	Accuracy: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Clock Accuracy Desc and Code
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:ACCUracY? Desc
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:CLASs?	
Description	This query returns Grand Master Information Clock Class Description and Code. Navigation Path: Setup > 1588 PTP > GM Info > Clock Class Navigation Path: Results > Summary > GM Info > Clock Class
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:CLASs? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Clock Class. DESCription CODE
Response Syntax	<Class>
Response(s)	Class: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Clock Class Desc and Code
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:CLOCK:CLASs? Desc
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:MODE?

Description	This query returns Grand Master Information Clock Mode Description. Navigation Path: Setup > 1588 PTP > GM Info > Clock Mode Navigation Path: Results > Summary > GM Info > Clock Mode
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCK:MODE? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Clock mode. DESCription
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Grand Master Information Clock Mode Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:CLOC:MODE? DESC
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:IDENtity?	
Description	This query returns Grand Master Information Identity Code. Navigation Path: Setup > 1588 PTP > GM Info > Identity Navigation Path: Results > Summary > GM Info > Identity
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:IDENtity? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Clock identity. CODE
Response Syntax	<Identity>
Response(s)	Identity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Identity Desc and Code.
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:IDENtity? CODE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMIAnnounce?

Description	This query returns Grand Master Information Log Message Interval for Announce Description and Code. Navigation Path: Setup > 1588 PTP > GM Info > Log Message Interval (Announce) Navigation Path: Results > Summary > GM Info > Log Message Interval (Announce)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMIAnnounce? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Log Message Interval For Announce . DESCription CODE
Response Syntax	<Log Message Interval For Announce>
Response(s)	Log Message Interval For Announce: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Log Message Interval For Announce Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:LMIA? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:LMISync?	
Description	This query returns Grand Master Information Log Message Interval for Sync Description and Code. Navigation Path: Setup > 1588 PTP > GM Info > Log Message Interval (Sync) Navigation Path: Results > Summary > GM Info > Log Message Interval (Sync)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:LMISync? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Log Message Interval For Sync. DESCription CODE
Response Syntax	<Log Message Interval For Sync>
Response(s)	Log Message Interval For Sync: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Log Message Interval For Sync Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:LMIS? Desc
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:TOTal:COUNT?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PIDEntity?

Description	This query returns Grand Master Information Port Identity Code. Navigation Path: Setup > 1588 PTP > GM Info > Port Identity Navigation Path: Results > Summary > GM Info > Port Identity
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PIDEntity? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Clock Port identity. CODE
Response Syntax	<Port Identity>
Response(s)	Port Identity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Port Identity Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PIDEntity? code
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:ONE?	
Description	This query returns Grand Master Information Priority 1 Code. Navigation Path: Setup > 1588 PTP > GM Info > Priority 1 Navigation Path: Results > Summary > GM Info > Priority 1
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:ONE? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Priority 1. CODE
Response Syntax	<Priority 1>
Response(s)	Priority 1: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Priority 1 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PRIO:ONE? CODE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:TW

O?

Description	This query returns Grand Master Information Priority 2 Code. Navigation Path: Setup > 1588 PTP > GM Info > Priority 2 Navigation Path: Results > Summary > GM Info > Priority 2
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMINfo:PRIOrity:TWO? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Priority 2. CODE
Response Syntax	<Priority 2>
Response(s)	Priority 2: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Priority 2 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PRIO:TWO? CODE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:SREMoved?	
Description	This query returns Grand Master Information Steps Removed Code. Navigation Path: Setup > 1588 PTP > GM Info > Step Removed Navigation Path: Results > Summary > GM Info > Step Removed
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:SREMoved? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Steps Removed. CODE
Response Syntax	<Steps Removed>
Response(s)	Steps Removed: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Steps Removed Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:SREM? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:GMInfo:TSOUrce?

Description	This query returns Grand Master Information Time Source Description and Code. Navigation Path: Setup > 1588 PTP > GM Info > Time Source Navigation Path: Results > Summary > GM Info > Time Source
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:GMInfo:TSOUrce? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Time Source. DESCription CODE
Response Syntax	<Time Source>
Response(s)	Time Source: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Time Source Desc and Code.
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:GMInfo:TSOU? Code
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANT:RATE?

Streams - Profile

:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?	
Description	This query returns the total enabled bandwidth value for all the configured traffic streams. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Total TX Rate.
Syntax	:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return the total enabled bandwidth.
Example(s)	SOUR:DATA:TEL:ETH:ENAB:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:STReam:ENABled

Description	This command enables/disables the transmission of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to OFF in Traffic Gen & Mon. At *RST condition, this value is set to ON in FlexE BERT. Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Profile > Stream - Enable Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Global > Enable stream check box Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > BERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ENABled <wsp><Stream number or client ID>, <Status>
Parameter(s)	Stream number or client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT) Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:STR:ENAB 1, ON SOUR:DATA:TEL:ETH:STR:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:STATus

:SOURce:DATA:TELecom:ETHernet:STReam:ENABled?	
Description	This query returns the transmission status of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to OFF in Traffic Gen & Mon. At *RST condition, this value is set to ON in FlexE BERT. Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Profile > Stream - Enable Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Global > Enable stream check box Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > BERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ENABled? <wsp><Stream number or client ID>
Parameter(s)	Stream number or client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:ENAB 1, ON SOUR:DATA:TEL:ETH:STR:ENAB? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:STATus?

:SOURce:DATA:TELEcom:ETHernet:STReam:FCOut

Description	This command counts the number of frames transmitted for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FCOut <wsp> <Tgen>, <Fcount>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Fcount: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects number of frame counts. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:MODE 1, NFR SOUR:DATA:TEL:ETH:STR:FCO 1, 500 SOUR:DATA:TEL:ETH:STR:FCO? 1 Returns: 500
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MODE

:SOURce:DATA:TELEcom:ETHernet:STReam:FCOut?	
Description	This query returns the number of frames transmitted for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FCOut? <wsp><Tgen>,[<Fcount>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Fcount: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current frame count is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of frame counts.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, NFR SOUR:DATA:TEL:ETH:STR:FCO 1, 500 SOUR:DATA:TEL:ETH:STR:FCO? 1 Returns: 500
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MODE ?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE

Description	This command sets the frame size. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size Navigation Path: Setup > Test Configurator > Clients > Profile > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE <wsp> <Number> , <Size>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT - 1 for other test applications Size: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame size: MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Fcount>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1, 500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE	
Description	This command sets the frame size type. At *RST condition, this value is set to Fixed. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size Navigation Path: Setup > Test Configurator > EtherBert > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE <wsp><Number>, <Type>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 Stream for EtherBert Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the frame size type: FIXED RANDOM EMIX (EtherSAM and EtherBert) SWEEP (Traffic Gen & Mon)
Response Syntax	<Fcount>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE? 1 Returns: FIXED
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEEp:START?

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:SIZE:TYPE?

Description	This query returns the frame size type. At *RST condition, this value is set to Fixed. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size Navigation Path: Setup > Test Configurator > EtherBert > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:SIZE:TYPE? <wsp> <Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 Stream for EtherBert
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type frame size: FIXED RANDOM EMIX (EtherSAM and EtherBert) SWEEP (Traffic Gen & Mon)
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE? 1 Returns: FIXED
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:SWEEp:START

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?	
Description	This query returns the frame size. At *RST condition, this value is device-dependent. Navigation Path: Test Configurator > Streams/Services > Profile > Profile - Frame Size Navigation Path: Setup > Test Configurator > Clients > BERT > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE? <wsp><Number>,[<Size>]
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM - 1 to n Client ID for FlexE BERT - 1 for other test applications Size: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. frame size MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Frame size>
Response(s)	Frame size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1, 500 SOUR:DATA:TEL:ETH:STR:FRAM:SIZE? 1 Returns: 500
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE:TYPE? 1

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END

Description	This command sets the maximum value of the sweep range. At *RST condition, this value is set to 1518. Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Max
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END <wsp><Stream>, <Sweep Range>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Sweep Range: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the sweep frame end size. MAXimum, sets the maximum sweep frame end size. MINimum, sets the minimum sweep frame end size.
Response Syntax	<Frame size>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END 1,67
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:IP?

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END?	
Description	This query returns the maximum value of the sweep range. At *RST condition, this value is set to 1518. Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Max
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:END? <wsp><Stream>,[<Sweep Range>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Sweep Range: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current sweep frame end size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Frame Size Type>
Response(s)	Frame Size Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the sweep frame end size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END 1,67 SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END? 1 Returns: 67
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:DESTination:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:STARt

Description	This command sets the minimum value of the sweep range. At *RST condition, this value is set to 64. Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Min
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SWEep:STARt <wsp><Stream>, <Sweep Range>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Sweep Range: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the sweep frame start size. MAXimum, sets the maximum sweep frame start size. MINimum, sets the minimum sweep frame start size.
Response Syntax	<Frame Size Type>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR 1,64
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:SIZE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STArt?	
Description	This query returns the minimum value of the sweep range. At *RST condition, this value is set to 64. Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Min)
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STArt? <wsp><Stream>,[<Sweep Range>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Sweep Range: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current sweep frame start size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Frame Size Type>
Response(s)	Frame Size Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the sweep frame start size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR 1,64 SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR? 1 Returns: 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE

:SOURce:DATA:TELEcom:ETHernet:STReam:MODE

Description	This command sets the transmitter mode for the selected stream. At *RST condition, this value is set to CONTinuous. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MODE <wsp><Tgen>, <Mode>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Mode: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transmitter mode for the selected stream. CONTinuous: transmitter mode as Continuous BURSt: Burst RAMP: Ramp NFRame: Number of Frame NBURst: Number of Burst NRAMP: Number of Ramp
Response Syntax	<Frame Size Type>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURSt SOUR:DATA:TEL:ETH:STR:MODE? 1 Returns: BURSt
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODeC:VOICe 2,VG723

:SOURce:DATA:TELEcom:ETHernet:STReam:MODE?	
Description	This query returns the transmitter mode for the stream. At *RST condition, this value is set to CONTinuous. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:MODE? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the transmitter mode for the selected stream. CONTinuous, for Continuous. BURSt, for Burst. RAMP, for Ramp. NFRame, for Number of Frame. NBURst, for Number of Burst. NRAMP, for Number of Ramp.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:MODE? 1 Returns: BURST
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VIDeo:CHANnels?

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE

Description	This command sets the TX rate (in percent) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE <wsp><Stream/Client ID>,[<RateInPercent>]
Parameter(s)	Stream/Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT) RateInPercent: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream or client TX rate, in percent, for the transmitter. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE 1, 105 SOUR:DATA:TEL:ETH:STR:PROFile:RATE? 1 Returns: 105
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS SOURce:DATA:TELecom:ETHernet:STReam:FCOunt

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS	
Description	This command sets the TX rate (in Mbit/s) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to the maximum rate of the interface or client rate. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS <wsp><Stream/Client ID>,[<RateInMbps>]
Parameter(s)	Stream/Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT) RateInMbps: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream or client TX rate, in Mbit/s, for the transmitter. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS 1, 10000 SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS? 1 Returns: 10000
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS?

Description	This query returns the TX rate (in Mbit/s) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to the maximum rate of the interface or client rate. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS? <wsp> <Stream/Client ID>,[<MinOrMaxRate>]
Parameter(s)	Stream/Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT) MinOrMaxRate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current profile rate, in Mbit/s, is returned. MAXimum: Biggest supported value, in Mbit/s. MINimum: Smallest supported value, in Mbit/s.
Response Syntax	<RateInMbps>
Response(s)	RateInMbps: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the stream or client TX rate, in Mbit/s, for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS 1, 10000 SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS? 1 Returns: 10000
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE?

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE?	
Description	This query returns the TX rate (in percent) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE? <wsp> <Stream/Client ID>,[<MinOrMaxOrDefaultRate>]
Parameter(s)	Stream/Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT) MinOrMaxOrDefaultRate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current profile rate, in percent, is returned. MAXimum: Biggest supported value, in percent. MINimum: Smallest supported value, in percent. DEFault: Default value, in percent
Response Syntax	<RateInPercent>
Response(s)	RateInPercent: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the stream or client TX rate, in percent, for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE 1, 105 SOUR:DATA:TEL:ETH:STR:PROFile:RATE? 1 Returns: 105
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE:MBPS? SOURce:DATA:TELEcom:ETHernet:STReam:FCOunt?

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:COUNT

Description	This command sets QoS metrics maximum Frame Loss count value. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Count - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:COUNT <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame loss count value. Choices are from 0 to 9999999999 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<RateInPercent>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VAL 1, 12.00 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VAL? 1 Returns 12.00

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:COUNT?	
Description	This query returns QoS metrics maximum Frame Loss count value. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Count - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:COUNT? <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current frame loss count is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame loss count value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VAL 1, 12.00 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VAL? 1 Returns 12.00

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:RATE

Description	This command sets QoS metrics maximum Frame Loss rate value. At *RST condition, this value is set to 1.0E-02. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Rate - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:RATE <wsp><Stream>,<Value>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame loss Rate value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE 1, 1.0E00 SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE? 1 Returns: 1.0E00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus 1, ON SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHerNet:STReam:QOSMetrics:FLOs:s:RATE?	
Description	This query returns QoS metrics maximum Frame Loss rate value. At *RST condition, this value is set to 1.0E-02. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHerNet:STReam:QOSMetrics:FLOs:s:RATE? <wsp> <Stream>, <Value>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value:
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the frame loss rate value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE 1, 1.0E00 SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE? 1 Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHerNet:STReam:QOSMetrics:LATency:STATus 1, ON SOURce:DATA:TELecom:ETHerNet:STReam:QOSMetrics:LATency:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:STATus

Description	This command enables/disables QoS metrics Frame Loss pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Frame Loss Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects frame loss type. COUNt Sets the frame loss type to COUN RATE Sets the frame loss type to RATE Status: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the frame loss status. ON,Enables frame loss. OFF,Disables frame loss.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT 1, COUN,ON SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT? 1, COUN Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL 1, 12.00 SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL? 1 Returns 12.00

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:STATus?	
Description	This query returns status of the QoS metrics Frame Loss pass/fail verdict setting. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Frame Loss Count/Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSs:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects frame loss type. COUNt Sets the frame loss type to COUN RATE Sets the frame loss type to RATE
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the QOS Metrics frame loss Status. 1, QOS Metrics frame loss is enabled. 0, QOS Metrics frame loss is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT 1, COUN,ON SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT? 1, COUN Returns: ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:VAL 1, 12.00 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:JITTer:VAL? 1 Returns 12.00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE

Description	This command sets QoS metrics Frame Loss type. At *RST condition, this value is set to count. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Frame Loss
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Frameloss Type. COUNt RATE
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE COUN SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE? Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus 1, ON SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:FLOs:s:TYPE?

Description	This query returns status of the QoS metrics Frame Loss pass/fail verdict setting. At *RST condition, this value is set to Count. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > FrameLoss
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:FLOs:s:TYPE?
Response Syntax	<Frame Loss TYPE>
Response(s)	Frame Loss TYPE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the QOSMetrics frame loss TYPE COUNT, returns frame loss type as Count. RATE, returns frame loss type as RATE.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE COUN SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE? Returns: COUN
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:JITTer:STATus 1, ON SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:JITTer:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTe
r:STATus

Description	This command enables/disables QoS metrics Jitter pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Jitter
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus <wsp><Stream>,[<Status>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets QOS metrics Jitter status. ON,Enables the QOSmetrics Jitter. OFF,Disables the QOSmetrics Jitter.
Response Syntax	<Frame Loss TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT? 1 Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:TYPE COUNT SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:TYPE? Returns COUNT

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATUs?

Description	This query returns status of QoS metrics Jitter pass/fail verdict setting. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Jitter
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATUs? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the QoS Jitter Status. 1, QOS metrics Jitter is enabled. 0, QOS metrics Jitter is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT? 1 Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOsS:TYPE COUNT SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOsS:TYPE? Returns COUNT

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue

Description	This command Sets QoS metrics maximum Jitter Value. At *RST condition, this value is set to 15.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Jitter - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Jitter value Choices are from 0.005 to 8000.0 for 10M rate and 0.001 to 8000.0 for all other rates. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL 1, 12.00 SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL? 1 Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSSs:STATus 1, COUNT,ON SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSSs:STATus? 1, COUNT Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue?	
Description	This query returns QoS metrics maximum Jitter Value. At *RST condition, this value is set to 15.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Jitter - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue? <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Jitter is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Jitter value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL 1, 12.00 SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL? 1 Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:STATus 1, COUNT,ON SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOs:STATus? 1, COUNT Returns ON

:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:LATe
ncy:STATus

Description	This command enables/disables QoS metrics Latency pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Latency Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:LATency:STATus <wsp> <Stream>,[<Status>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. QOS metrics latency status. ON, Enables QOSmetrics latency. OFF, Disables QOSmetrics latency.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:FLOsS:STATus 1, COUNT,ON SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:FLOsS:STATus? 1, COUNT Returns ON

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATe ncy:STATus?	
Description	This query returns status of QoS metrics Latency pass/fail verdict setting. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Latency Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:STATus? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the QoS Latency Status. 1, QoS metrics latency is enabled. 0, QoS metrics latency is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT 1, ON SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:RATE 1, 1.0E00 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:RATE? 1 Returns 1.0E01

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue

Description	This command Sets QoS metrics maximum Latency value. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Latency - Maximum Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Threshold
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the latency value Choices are from 0.005 to 8000.0 for 10M rate and 0.001 to 8000.0 for all other rates. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL 1, 12.00 SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL? 1 Returns: 12.00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:COUNT 1, 20 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOSSs:COUNT? 1 Returns 20

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue?	
Description	This query returns QoS metrics maximum Latency value. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Latency - Maximum Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Threshold
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:LATency:VALue? <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current latency is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Latency value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL 1, 12.00 SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL? 1 Returns: 12.00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:COUNT 1, 20 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:FLOs:COUNT? 1 Returns 21

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUNT	
Description	This command sets QoS metrics maximum Out-Of-Sequence Count value. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Count - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUNT <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Out-of- Sequence count value Choices are from 0 to 9999999999 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MIN 1, CURR,20 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MIN? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNT?	
Description	This query returns QoS metrics maximum Out-Of-Sequence Count value. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Count - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNT? <wsp><Stream>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Out-of- Sequence count is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Out-of- Sequence count value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN 1, CURR,20 SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOS equence:RATE	
Description	This command sets QoS metrics maximum Out-Of-Sequence rate value. At *RST condition, this value is set to 1.0E-02. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOSequence:RATE <wsp><Stream>, <Value>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Out-of- Sequence Rate value MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE 1, 1.0E00 SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE? 1 Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:THRoughput:MAX 1, CURR,20 SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:THRoughput:MAX? 1, CURR Returns 20

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE?	
Description	This query returns QoS metrics maximum Out-Of-Sequence rate value. At *RST condition, this value is set to 1.0E-02. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Rate - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Out-of- Sequence rate value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE 1, 1.0E00 SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE? 1 Returns: 1.0E00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MAX 1, CURR,20 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:MAX? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus	
Description	This command enables/disables QoS Metrics Out-of-Sequence pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Out-Of-Sequence Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects out of sequence Type. COUNt selects out of sequence type to COUNT. RATE selects out of sequence type to RATE. Status: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the QOS Metrics out of sequence status. ON, Enables QOSMetrics out of sequence. OFF, Disables QOSMetrics out of sequence.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT 1, COUN,ON SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT? 1, COUN Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus 1, CURR,ON SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus? 1, CURR Returns ON

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus?	
Description	This query returns status of the QoS Metrics Out-of-Sequence pass/fail verdict setting. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Out-Of-Sequence Count/Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects out of sequence Type. COUNt selects out of sequence type to COUNT. RATE selects out of sequence type to RATE.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the QoS Metrics Out-Of Sequence status. 1, QoS Metrics Out-Of Sequence is enabled. 0, QoS Metrics Out-Of Sequence is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT 1, COUN,ON SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT? 1, COUN Returns: ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:STATus 1, CURR,ON SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:STATus? 1, CURR Returns ON

**:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOS
equence:TYPE**

Description	This command sets QoS metrics Out-Of-Sequence type. At *RST condition, this value is set to count. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Out-Of-Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Out of Sequence Type. COUNt Selects Out of Sequence Type to COUNT. RATE Selects Out of Sequence Type to RATE.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE COUN SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE? Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE CURR SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE? Returns CURR

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOS equence:TYPE?	
Description	This query returns QoS metrics Out-Of-Sequence type. At *RST condition, this value is set to count. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Out-Of-Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE?
Response Syntax	<TYPE>
Response(s)	TYPE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the QoS Metrics Out-Of Sequence Type. COUNT, returns Out-Of Sequence type as Count. RATE, returns Out-Of Sequence type as RATE.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE COUN SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE? Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE CURR SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE? Returns CURR

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo
ughput:MAXimum

Description	This command sets QoS metrics maximum Throughput value. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THROUGHput:MAXimum <wsp><Stream>, <Type>, <Value>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the maximum throughput value Choices are from 0.0000 to 107.0000 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX 1, CURR,20 SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX? 1, CURR Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE 1, 1.0E00 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:RATE? 1 Returns 1.0E00

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:MAXimum?	
Description	This query returns QoS metrics maximum Throughput value. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Maximum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo<u>ughput</u>:MAX<u>imum</u>? <wsp><Stream>, <Type>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current maximum throughput value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Maximum Throughput Value>

**:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:THRo
ughput:MAXimum?**

Response(s)	Maximum Throughput Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum throughput value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX 1, CURR,20 SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX? 1, CURR Returns: 20
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOSequence:RATE 1, 1.0E00 SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOSequence:RATE? 1 Returns 1.0E00

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:MINimum	
Description	This command sets QoS metrics minimum Throughput value. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Minimum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo<u>ughput</u>:MINimum <wsp><Stream>, <Type>, <Value>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the minimum throughput value Choices are from 0.0000 to 107.0000 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Maximum Throughput Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN 1, CURR,20 SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN? 1, CURR Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUnT 1, 20 SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:COUnT? 1 Returns 20

**:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo
ughput:MINimum?**

Description	This query returns QoS metrics mimimum Throughput value. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Minimum
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THROUGHput:MINimum? <wsp><Stream>, <Type>,[<Value>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current minimum throughput value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Minimum Throughput Value>

**:SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:THRo
ughput:MINimum?**

Response(s)	Minimum Throughput Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum throughput value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN 1, CURR,20 SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN? 1, CURR Returns: 20
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOSequence:COUNt 1, 20 SOURce:DATA:TELecom:ETHeRnet:STReam:QOSMetrics:OOSequence:COUNt? 1 Returns 20

**:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo
ughput:STATus**

Description	This command enables/disables Throughput pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THROUGHput:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current Status: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the QOSmetrics Throughput status ON OFF. ON,Enables the QOSmetrics Throughput. OFF,Disables the QOSmetrics Throughput. <Minimum Throughput Value>
Response Syntax	
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT 1, CURR,ON SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT? 1, CURR Returns: ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus 1, COUNT,ON SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus? 1, COUNT Returns ON

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:STATus?	
Description	This query returns status of QoS metrics Throughput pass/fail verdict setting. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Type: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects Throughput Type. AVG: Average CURRent: Current
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the QoS Metrics throughput Status. 1, QoS Metrics throughput is enabled. 0, QoS Metrics throughput is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT 1, CURR,ON SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT? 1, CURR Returns: ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus 1, COUNT,ON SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:STATus? 1, COUNT Returns ON

**:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo
ughput:TYPE**

Description	This command sets QoS metrics Throughput Type. At *RST condition, this value is set to Average Throughput. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Throughput Type. AVERAGE, sets throughput type to AVERAGE CURRrent, sets throughput type to CURRENT
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE CURR SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE? Returns: CURR
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE COUNT SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE? 1, 1 Returns COUNT

:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:TYPE?	
Description	This query returns QoS metrics Throughput Type. At *RST condition, this value is set to Average Throughput. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Throughput
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:THRo ughput:TYPE?
Response Syntax	<TYPE>
Response(s)	TYPE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the QoS Metrics throughput TYPE AVG, returns throughput type as Average. CURRENT, returns Throughput type as Current.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE CURR SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE? Returns: CURR
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE COUNT SOURce:DATA:TELEcom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE? 1, 1 Returns COUNT

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict

Description	This command enables/disables the QoS Metrics Global Pass/Fail verdict. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics ,Ä Global Pass/Fail Verdict.
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:VERD ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict?	
Description	This query returns the enable/disable status of the QoS Metrics Global Pass/Fail Verdict. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics ,Ä Global Pass/Fail Verdict.
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of the Global Pass/Fail Verdict. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:VERD ON SOUR:DATA:TEL:ETH:STR:QOSM:VERD? Returns: 1

:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE

Description	This command sets the Transmit Mode. At *RST condition, this value is set to Continuous. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the transmit mode for the stream CONFig. CONTinuous: Continuous NFRame: Number of frames
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:MODE CONTINUOUS SOUR:DATA:TEL:ETH:STR:TRAN:MODE? Returns: CONTINUOUS
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TRANsmit:MODE?

:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE?	
Description	This query returns the Transmit Mode. At *RST condition, this value is set to Continuous. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:TRAnsmit:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the transmit mode of the stream CONFig. CONtinuous, indicates Continuous as the transmit mode. NFRame, indicates Number of frames as the transmit mode.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:MODE CONTINUOUS SOUR:DATA:TEL:ETH:STR:TRAN:MODE? Returns: CONTINUOUS
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:TRANsmit:MODE?

:SOURce:DATA:TELeom:ETHernet:STReam:TRAnsmit:NFRame
e

Description	This command sets the number of frames. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:TRAnsmit:NFRame <wsp> <Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of frames. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:NFR 100 SOUR:DATA:TEL:ETH:STR:TRAN:NFR? Returns: 100
See Also	SOURce:DATA:TELeom:ETHernet:STReam:TRAnsmit:NFRame?

:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame?	
Description	This query returns the number of frames. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame?
Response Syntax	<Frame>
Response(s)	Frame: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of frames for each traffic type. MAXimum, indicates maximum as number of frames. MINimum, indicates minimum as number of frames.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:NFR 100 SOUR:DATA:TEL:ETH:STR:TRAN:NFR? Returns: 100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:NFRame

:SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?

Description	This query returns the total available bandwidth value for all configured traffic streams. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Link Capacity.
Syntax	:SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total available bandwidth.
Example(s)	SOUR:DATA:TEL:ETH:TOT:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Streams - Profile (Profile)

:SOURce:DATA:TELecom:ETHerneT:STReam:CODeC:VIDeo

Description	This command sets the Video Codec for the selected traffic stream/service. At *RST condition, this value is set to SDTVMPEG2. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Video Codec
Syntax	:SOURce:DATA:TELecom:ETHerneT:STReam:CODeC:VIDeo <wsp> <Tgen> , <Profile>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Profile: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the video codec type for the selected stream. SDTVMPEG2: SDTV (MPEG-2) HDTVMPEG2: HDTV (MPEG-2) HDTVMPEG4: HDTV (MPEG-4)
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDEO SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2 SOUR:DATA:TEL:ETH:STR:COD:VID? 2 Returns: SDTVMPEG2
See Also	SOURce:DATA:TELecom:ETHerneT:STReam:CODeC:VIDeo?

:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VIDeo:CHAnnels	
Description	This command sets the number of channels for the selected traffic stream/service. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number Of Channels
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VIDeo:CHAnnels <wsp><Stream>,<Channels>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Traffic Gen and Mon - Selects the stream from 1 to 16. EtherSAM - Selects the service from 1 to 10. Channels: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of channels. VG711: VG711 jitter packet type VG723: VG723 jitter packet type VG729: VG729 jitter packet type MAXimum: Biggest supported value MINimum: Smallest supported value UDEfined: User Defined jitter packet type
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2 SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 2,20 SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN? 2 Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VIDeo:CHAnnels?	
Description	This query returns the number of channels for the selected traffic stream/service. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number Of Channels
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VIDeo:CHAnnels? <wsp> <Stream>,[<MIN/MAX>]
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Traffic Gen and Mon - Selects the stream from 1 to 16. EtherSAM - Selects the service from 1 to 10. MIN/MAX: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Channels>
Response(s)	Channels: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of channels.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2 SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 2,20 SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN? 2 Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VIDeo?

:SOURce:DATA:TELEcom:ETHernet:STReam:CODeC:VIDeo?

Description	This query returns the Video Codec for the selected traffic stream/service. At *RST condition, this value is set to SDTVMPEG2. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Video Codec
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:CODeC:VIDeo? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Codec>
Response(s)	Codec: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the video codec type for the selected stream. SDTVMPEG2, SDTV (MPEG-2) is selected as video codec type. HDTVMPEG2, HDTV (MPEG-2) is selected as video codec type. HDTVMPEG4, HDTV (MPEG-4) is selected as video codec type.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2 SOUR:DATA:TEL:ETH:STR:COD:VID? 2 Returns: SDTVMPEG2
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODeC:VIDeo

:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VOICe	
Description	This command sets the voice codec for the selected traffic stream/service. At *RST condition, this value is set to VG711. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VOICe <wsp><Tgen>, <Voice>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Voice: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the voice codec for the selected traffic stream. VG711: VG711. VG723: VG723. VG729: VG729.
Response Syntax	<Codec>
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723 SOUR:DATA:TEL:ETH:STR:COD:VOIC? 2 Returns: VG723
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:CODec:VOICe:CALLs	
Description	This command sets the number of calls for the selected traffic stream/service. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number of Calls
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:CODec:VOICe:CALLs <wsp><Tgen>, <Calls>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Calls: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of calls.
Response Syntax	<Codec>
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723 SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 2,20 SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 2 Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODec:VIDeo:CHANnels

:SOURce:DATA:TELecom:ETHeRnet:STReam:CODeC:VOICe:CALLs?	
Description	This query returns the number of calls for the selected traffic stream/service. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number of Calls
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:CODeC:VOICe:CALLs? <wsp><Tgen>,[<Value>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
Response Syntax	<Calls>
Response(s)	Calls: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of calls.
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723 SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 2,20 SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 2 Returns: 20
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:CODeC:VIDeo:CHANnels?

:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VOICe?

Description	This query returns the selected voice codec for the selected traffic stream/service. At *RST condition, this value is set to VG711. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODeC:VOICe? <wsp><Tgen>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Voice>
Response(s)	Voice: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the voice codec. VG711, VG711 is selected. VG723, VG723 is selected. VG729, VG729 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2, VG723 SOUR:DATA:TEL:ETH:STR:COD:VOIC? 2 Returns: VG723
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE	
Description	This command sets the profile type for the selected traffic stream/service. At *RST condition, this value is set to Data. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice/Video/Data
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE <wsp><Stream>, <Profile>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Profile: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the profile type. VOICe: Voice VIDeo: Video DATA: Data
Response Syntax	<Voice>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VOICE SOUR:DATA:TEL:ETH:STR:PROF:TYPE? 2 Returns: VOICE
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODec:VOICe

:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE?

Description	This query returns the profile type for the selected traffic stream/service. At *RST condition, this value is set to Data. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice/Video/Data
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:TYPE? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Profile>
Response(s)	Profile: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the profile type. VOICe, Voice as profile type is selected. VIDeo, Video as profile type is selected. DATA, Data as profile type is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VOIC SOUR:DATA:TEL:ETH:STR:PROF:TYPE? 2 Returns: VOICE
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:CODEc:VOICe?

Shaping

:SOURce:DATA:TELecom:ETHerNet:STReam:BURSt:BANDwidth	
Description	This command sets the burst bandwidth for the selected traffic stream. At *RST condition, this value is set to 50. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Duty Cycle
Syntax	:SOURce:DATA:TELecom:ETHerNet:STReam:BURSt:BANDwidth[<wsp><Tgen>], <Bandwidth>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Bandwidth: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the bandwidth in percentage. Choices are 1 through 100%. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:BAND 1, 100 SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1 Returns: 100
See Also	SOURce:DATA:TELecom:ETHerNet:STReam:MODE

:SOURce:DATA:TELecom:ETHeRnet:STReam:BURSt:BANDwidth?h?

Description	This query returns the burst bandwidth for the selected traffic stream. At *RST condition, this value is set to 50. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Duty Cycle
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:BURSt:BANDwidth?[<wsp><Tgen>],[<Bandwidth>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Bandwidth: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current bandwidth is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the burst bandwidth from 1 to 100 in percentage.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:BAND 1, 100 SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1 Returns: 100
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT

Description	This command sets the number of burst count for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT <wsp><Tgen>, <Count>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Count: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the number of the burst count. Choices are 1 through 255. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:COUN 1, 50 SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1 Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT?

Description	This query returns the number of burst count for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT? <wsp><Tgen>,[<Count>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Count: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current burst count is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the burst count.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:COUN 1, 50 SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1 Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:TIME	
Description	This command sets the burst period for the selected traffic stream. At *RST condition, this value is set to 1000. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Period
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:TIME <wsp><Tgen>, <Period>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Period: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the burst time. Choices are 1 to 8000 milliseconds. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:TIME 1, 50 SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BURSt:COUNT

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Description	This query returns the duration of burst for the selected traffic stream. At *RST condition, this value is set to 1000. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Period
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME? <wsp><Tgen>,[<Period>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Period: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current burst period is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns burst time.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS SOUR:DATA:TEL:ETH:STR:BURS:TIME 1, 50 SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1 Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT?

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNT	
Description	This command sets the ramp cycle count for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Cycle Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNT <wsp><Tgen>, <Count>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Count: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the ramp cycle count. Choices are 1 through 225. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNT?

:SOURce:DATA:TELeom:ETHernet:STReam:RAMP:COUNT?

Description	This query returns the number of ramp cycle count for the selected traffic stream. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Cycle Count
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:RAMP:COUNT? <wsp><Tgen>,[<Count>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Count: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the ramp count value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1, 20 SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1 Returns: 20
See Also	SOURce:DATA:TELeom:ETHernet:STReam:MODE

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP	
Description	This command sets the number of ramp steps for the selected traffic stream. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Nb. Of Steps
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP <wsp><Tgen>, <Step>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Step: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the step for the ramp. Choices are 2 through 100. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1, 50 SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MODE

:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP?

Description	This query returns the number of ramp steps for the selected traffic stream. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Nb. Of Steps
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:RAMP:STEP? <wsp><Tgen>,[<Step>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Step: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Step>
Response(s)	Step: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the ramp step value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1, 50 SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1 Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME	
Description	This command sets the ramp step time for the selected traffic stream. At *RST condition, this value is set to 1000. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME <wsp><Tgen>, <Time>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Time: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the ramp step time. Choices are 100 through 8000 milliseconds. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Step>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1, 5 SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1 Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME

:SOURce:DATA:TELeom:ETHernet:STReam:RAMP:TIME?

Description	This query returns the ramp step time for the selected traffic stream. At *RST condition, this value is set to 1000. Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Step Time
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:RAMP:TIME? <wsp><Tgen>,[<Time>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Time: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the ramp step time.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1, 5 SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1 Returns: 5
See Also	SOURce:DATA:TELeom:ETHernet:STReam:BURSt:TIME?

Streams - Global

:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COpy:SYNC:PROGress?	
Description	This query returns the progress of copy triggered for batch Configuration. This is an event so no *RST condition. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Apply To
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COpy:SYNC:PROGress?
Response Syntax	<Progress>
Response(s)	Progress: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the progress of copy.
Example(s)	FETC:DATA:TEL:ETH:STR:BATC:COpy:SYNC:PROG?
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:SOURce:DATA:TELecom:ETHerneT:STReam:BATCh:COpy

Description	This command selects all, unselect all, or invert the stream selection for batch configuration. This is an event so no *RST condition. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing MAC/IP > Batch > (Un)Select All / Invert
Syntax	:SOURce:DATA:TELecom:ETHerneT:STReam:BATCh:COpy <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the streams for copy. SELECTALL: Selects all streams UNSELECTALL: Deselects all streams INVERT: Invert the stream selection
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:COpy SELECTALL Selects all the streams for copying
See Also	SOURce:DATA:TELecom:ETHerneT:STReam:BATCh:COpy:APPLy

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy	
Description	This command apply trigger copy to all selected stream for batch Configuration. This is an event so no *RST condition. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Apply To
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLY
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:COPY:APPL
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COpy:STReam	
Description	This command enable/disable stream(s) for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams/Services > Global > Addressing > Batch > Stream/Service 1 to 16
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COpy:STReam <wsp><Stream/Service>, <Set>
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the stream. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable or disable the stream/service. ON, enables the stream. OFF, disables the stream.
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATCh:COpy:STR 1,ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFAult:GATeway:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPIY:STR eam?	
Description	This query returns the enabled streams for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Stream 1 to 16
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:COPIY:STReam?
Response Syntax	<result>
Response(s)	result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the all selected streams
Example(s)	SOUR:DATA:TEL:ETH:STR:BATCh:COPIY:STR 1,ON SOUR:DATA:TEL:ETH:STR:BATCh:COPIY:STR? Returns: Enabled Stream = 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFAult:GATeway:IP?

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle

Description	This command enables/disables the Default gateway for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle<wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<result>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?	
Description	This query returns the status of the Default gateway for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB ON SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB? Return: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

**:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFAult:G
ATeway:IP**

Description	This command sets the Default gateway IP Address for batch Configuration. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFAult:GATeway:IP <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default gateway IP Address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?	
Description	This query returns the Default gateway IP Address for batch Configuration. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default gateway IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP 10.10.10.10 SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP? Returns: 10.10.10.10
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP?

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP	
Description	This command sets the Destination IP Address for batch Configuration. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address - IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination IP Address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP 10.10.10.10
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE	
Description	This command enables/disables the Destination IP Address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABLE

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE?

Description	This query returns the status of the Destination IP Address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB ON SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB? Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP?	
Description	This query returns the Destination IP Address for batch Configuration. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address - IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP 10.10.10.10 SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP? Returns: 10.10.10.10
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP?

**:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTinati
on:MAC:ADDRes**

Description	This command sets the Destination MAC address for batch Configuration. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - MAC address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRes <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination MAC address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR 00:AA:DD:CC:11:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCH:DESTination:MAC:ADDRes?	
Description	This query returns the Destination MAC address for batch Configuration. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - MAC address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCH:DESTination:MAC:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination MAC address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR 00:AA:DD:CC:11:00 SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR? Returns: 00:AA:DD:CC:11:00
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCH:SOURce:SUBNet:MASK?

**:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTinati
on:MAC:ENABLE**

Description	This command enables/disables the Destination MAC address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination MAC address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTinati on:MAC:ENABLE?	
Description	This query returns the status of the Destination MAC address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination MAC address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB ON SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB? Return: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE?

**:SOURce:DATA:TELeom:ETHernet:STReam:BATCh:DESTinati
on:MAC:TYPE**

Description	This command sets the Destination MAC address type for batch Configuration. At *RST condition, this value is set to Resolve. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - Resolve / Set to
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Destination MAC address type. RESOLVE: Resolve. STATICMAC: Static MAC.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE RESOLVE
See Also	SOURce:DATA:TELeom:ETHernet:STReam:BATCh:SOURce:ADDRes:TYPE

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?	
Description	This query returns the Destination MAC address type for batch Configuration. At *RST condition, this value is set to Resolve. Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - Resolve / Set to
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Destination MAC address type. RESOLVE, Resolve as Destination MAC address type. STATICMAC, Set to as Destination MAC address type.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE RESOLVE SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE? Returns: RESOLVE
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:ADDRes:TYPE?

:SOURce:DATA:TELeom:ETHernet:STReam:BATCh:SOURce:ADDRESS:TYPE

Description	This command sets the Source IP Address type for batch Configuration. At *RST condition, this value is set to Couple with Interface. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Couple with Interface / Automatic IP (DHCP) / Set to
Syntax	:SOURce:DATA:TELeom:ETHernet:STReam:BATCh:SOURce:ADDRESS:TYPE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Source IP Address type. COUPLEWITHINTERFACE: Couple With Interface. DHCP: Automatic IP (DHCP). STATICIP: Static IP
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE DHCP
See Also	SOURce:DATA:TELeom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE?	
Description	This query returns the Source IP Address type for batch Configuration. At *RST condition, this value is set to Couple with Interface. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Couple with Interface / Automatic IP (DHCP) / Set to
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDReSS:TYPE?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Source IP Address type. COUPLEWITHINTERFACE, Couple With Interface as Source IP Address type. DHCP, Automatic IP (DHCP) as Source IP Address type. STATICIP, Set to as Source IP Address type.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE DHCP SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE? Returns: DHCP
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:IP

Description	This command sets the Source IP Address for batch Configuration. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - IP Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:IP <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Source IP Address.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:DESTination:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE	
Description	This command enables/disables the Source IP Address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB ON
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE?

Description	This query returns the status of the Source IP Address group for batch Configuration. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB ON SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB? Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABLE?

:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:IP?	
Description	This query returns the Source IP Address for batch Configuration. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - IP Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:IP?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Source IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP 10.10.10.10 SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP? Returns: 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:DESTination:IP?

:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:SUBNet:MASK	
Description	This command sets the Subnet mask Address for batch Configuration. At *RST condition, this value is set to 255.255.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Subnet mask
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:SOURce:SUBNet:MASK <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Subnet mask Address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK 255.255.255.0
See Also	SOURce:DATA:TELecom:ETHeRnet:STReam:BATCh:DEFAult:GATeway:IP

:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?	
Description	This query returns the Subnet mask Address for batch Configuration. At *RST condition, this value is set to 255.255.0.0. Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Subnet mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Subnet mask address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK 255.255.255.0 SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK? Returns: 255.255.255.0
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:BATCh:DEFAult:GATeway:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle

Description	This command enables/disables the QoS Metrics Tag Insertion. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Global Options - QoS Metrics Tags Insertion
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle ON
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABLE?	
Description	This query return status of the QoS Metrics Tag Insertion setting. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Streams > Global > Global Options - QoS Metrics Tags Insertion
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle ON SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle? Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE?

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:REStore:DEFault	
Description	This command restores the stream configuration to default values. This is action command so no default values. Navigation Path: Setup > Test Configurator > Streams > Global > Restore Default
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:REStore:DEFault
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:REStore:DEFault
See Also	SOURce:DATA:TELEcom:OTN:REStore:DEFault SOURce:DATA:TELEcom:ETHernet:ESAM:REStore:DEFault SOURce:DATA:TELEcom:ETHernet:RFC:REStore:DEFault SOURce:DATA:TELEcom:REStore:DEFault

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME	
Description	This command sets the stream name for selected traffic stream. At *RST condition, this value is set to Stream 1 for first stream. Navigation Path: Setup > Test Configurator > Streams > Profile > Stream Name Navigation Path: Setup > Test Configurator > Streams > Global > Stream Name
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:NAME[<wsp><Tgen>], <Name>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Name: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the name for selected stream.
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:NAME 1, streamA
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

:SOURce:DATA:TELEcom:ETHernet:STReam:NAME?

Description	This query returns stream name for the selected traffic stream. At *RST condition, this value is set to Stream 1 for first stream. Navigation Path: Setup > Test Configurator > Streams > Profile > Stream Name Navigation Path: Setup > Test Configurator > Streams > Global > Stream Name
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:NAME?[<wsp><Tgen>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Name>
Response(s)	Name: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the name for selected stream
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:NAME 1, streamA SOURce:DATA:TELEcom:ETHernet:STReam:NAME? 1 Returns: streamA
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:PROFile:RATE

Streams - Global (Copy Stream)

:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:COPYstream	
Description	This command copies the stream/service configuration of source stream/service to destination stream/service. There is no *RST value for this command. Navigation Path: Setup > Test Configurator > Streams/Services > Global > Copy Stream/Service > Copy Stream / To the following Streams/Services / Copy
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:COPYstream[<wsp><Source>], <Destination>
Parameter(s)	Source: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the source stream/service from 1 to 16. Destination: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the destination stream/service from 1 to 16.
Response Syntax	<Frame Size>
Example(s)	SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:COPYstream 1, 2
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:GLOBal:REStore:DEFAult

SyncE

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?	
Description	This query returns ESMC link status. At *RST condition, this value is set to down. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns ESMC link status
Example(s)	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?	
Description	This query returns Received QL. At *RST condition, this value is set to 1 second. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Received QL
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?
Response Syntax	<Received QL>
Response(s)	Received QL: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Received QL.
Example(s)	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENErated:QLENAble	
Description	This command enables/disables the Generated QL setting. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENErated:QLENAble <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Received QL>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN ON SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN? Returns: 1
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERwrite:ENABLEd

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLEnable?	
Description	This query returns the status of the Generated QL setting. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLEnable?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns ESMC QL Enable 0, Returns ESMC QL Enable 1, Returns ESMC QL Disables
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN ON SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN? Returns: 1
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERwrite:ENABLEd?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue

Description	This command set the Generated QL value. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue <wsp> <QL Value>
Parameter(s)	QL Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Quality Level/PTP Clock Class QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue	
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV QLSTUUNK SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV? Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENErated:QLValue?

Description	This query returns the Generated QL value. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENErated:QLValue?
Response Syntax	<QL Value>
Response(s)	QL Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns ESMC QL Value QL-PRS,Returns QL-PRS as Quality Level QL-STU/UNK,Returns QL-STU/UNK as Quality Level QL-PRC,Returns QL-PRC as Quality Level QL-ST2, Returns QL-ST2 as Quality Level QL-INV3,Returns QL-INV3 as Quality Level QL-SSU-A/TNC 90, Returns QL-SSU-A/TNC as Quality Level QL-INV5,ReturnsQL-INV5 as Quality Level QL-INV6,Returns QL-INV6 as Quality Level QL-SSU-B,Returns QL-SSU-B as Quality Level QL-INV9,Returns QL-INV9 as Quality Level QL-ST3E,Returns QL-ST3E as Quality Level QL-EEC2/ST3, Returns QL-EEC2/ST3 as Quality Level QL-EEC1/SEC,Returns QL-EEC1/SEC as Quality Level QL-SMC 106,Returns QL-SMC 106 as Quality Level QL-PROV 108, Returns QL-PROV 108 as Quality Level QL-DNU/DUS, Returns QL-DNU/DUS as Quality Level
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV QLSTUUNK SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV? Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate	
Description	This command set the QL Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - QL Rate
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate <wsp> <QL Rate>
Parameter(s)	QL Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Rate of Quality Level/PTP Clock Class
Response Syntax	<QL Value>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR 1 SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR? Returns: 1
See Also	SOURce:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?	
Description	This query returns the QL Rate value. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - QL Rate
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?
Response Syntax	<QL Rate>
Response(s)	QL Rate: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns ESMC QL Rate
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR 1 SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR? Returns: 1
See Also	SOURce:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql

Description	This command set the Expected QL. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql <wsp> <Expected QL>
Parameter(s)	Expected QL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Quality Level/PTP Clock Class QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use for Synchronization

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitori
ng:EXPectedql

Response Syntax	<QL Rate>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP QLSTUUNK SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP? Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql?	
Description	This query returns the Expected QL. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:EXPeCtedql?
Response Syntax	<Expected QL>
Response(s)	Expected QL: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Expected QL QL-PRS, returns QL-PRS as Quality Level QL-STU/UNK, returns QL-STU/UNK as Quality Level QL-PRC, returns QL-PRC as Quality Level QL-ST2, returns QL-ST2 as Quality Level QL-INV3, returns QL-INV3 as Quality Level QL-SSU-A/TNC 90, returns QL-SSU-A/TNC as Quality Level QL-INV5, returns QL-INV5 as Quality Level QL-INV6, returns QL-INV6 as Quality Level QL-SSU-B, returns QL-SSU-B as Quality Level QL-INV9, returns QL-INV9 as Quality Level QL-ST3E, returns QL-ST3E as Quality Level QL-EEC2/ST3, returns QL-EEC2/ST3 as Quality Level QL-EEC1/SEC, returns QL-EEC1/SEC as Quality Level QL-SMC 106, returns QL-SMC 106 as Quality Level QL-PROV 108, returns QL-PROV 108 as Quality Level QL-DNU/DUS, returns QL-DNU/DUS as Quality Level
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP QLSTUUNK SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP? Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:QLMismatch?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitori
ng:PASSfail:VERDict

Description	This command enables/disables the Pass/Fail Verdict. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Expected QL>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD ON SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLEnable

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitori ng:PASSfail:VERDict?	
Description	This query returns the status of the Pass/Fail Verdict setting. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict?
Response Syntax	<Verdict Status>
Response(s)	Verdict Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns Pass/Fail Verdict 0, Returns Pass/Fail Verdict OFF 1, Returns Pass/Fail Verdict ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD ON SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLEnable?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitori
ng:QLMismatch

Description	This command enables/disables the QL Mismatch Monitoring. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - QL Mismatch Monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Verdict Status>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM ON
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPeCtedql

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?	
Description	This query returns the status of QL Mismatch Monitoring setting. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - QL Mismatch Monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?
Response Syntax	<QL Mismatch>
Response(s)	QL Mismatch: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns QL Mismatch Monitoring 0, Returns QL Mismatch OFF 1, Returns QL Mismatch ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM ON SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPeCtedql?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold

Description	This command enables/disables the ESMC Rate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC Rate threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<QL Mismatch>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR ON SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold?	
Description	This query returns the status of ESMC Rate Threshold setting. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC Rate threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONItoring:RATE:THReshold?
Response Syntax	<Rate Threshold>
Response(s)	Rate Threshold: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns ESMC Rate Threshold. 0, returns ESMC Rate Threshold OFF 1, returns ESMC Rate Threshold ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR ON SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

Services - Profile

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SE RVice:ENABle	
Description	This command enables/disables the selected service. This command is not associated with any *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Service - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SErvice:ENABle <wsp><Service>,<Status>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SErvice:ENABle 1, ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:TESTs

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SE RVice:ENABLE?	
Description	This query returns the enable/disable status of the selected Service. This query is not associated with any *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Service - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SErvice:ENABLE? <wsp> <Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SErvice:ENABLE 1, ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SErvice:ENABLE? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:TESTs?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize	
Description	This command sets the frame sizes for the selected service. This command is not associated with *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize <wsp><Service>, <EMIX frame>, <Size>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. EMIX frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EMIX Frame. Size: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EMIX Frame size. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize 1, 1, 64
See Also	SOURce:DATA:TEL:ETH:STR:FRAM:SIZE?

:SOURce:DATA:TELecom:ETHerNet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize?	
Description	This query returns the frame sizes for the selected service. This query is not associated with *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHerNet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize? <wsp><Service>, <EMIX frame>,[<Size>]
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. EMIX frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EMIX Frame. Size: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the EMIX Frame size. This parameter is optional. If no token is specified, the current EMIX frame size value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<FrameSize>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize?

Response(s)	FrameSize: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame size of emix frames for selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize 1, 1, 64 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize? 1, 1 Returns: 64
See Also	SOURce:DATA:TEL:ETH:STR:FRAM:SIZE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity	
Description	This command sets the quantity of EMIX frame sizes for selected service. At *RST condition, the value is set to 2. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity <wsp> <Service>, <Quantity>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Quantity: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the quantity of frames.
Response Syntax	<FrameSize>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity 1, 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize

**:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:F
RASize:QUANtity?**

Description	This query returns the quantity of EMIX frame sizes for selected service. At *RST condition, the value is set to 2. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity? <wsp> <Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10.
Response Syntax	<Quantity>
Response(s)	Quantity: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the quantity of EMIX frames for selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity 1, 5 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity? 1 Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:EMIX:FRAMesize?

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:F RASize:RESDefault	
Description	This command restores the EMIX configuration to default settings for the selected service. This command is not associated with any *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Restore Default
Syntax	:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault <wsp> <Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10.
Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault 1
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe

Description	This command sets the CBS and EBS burst sizes for selected service. At *RST condition, the value is set to 12144. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe <wsp><Service>, <Direction>, <Burst Size Type>, <Size>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS Size: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the burst size. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE	
Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE 1, LTOR,cbs,2050
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE:ENABLE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle	
Description	This command enables/disables the CBS and EBS Burst Size for selected service. At *RST condition CBS is enabled and EBS is disabled. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle <wsp> <Service>, <Burst Size Type>, <Status>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Burst Size Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS: EBS as the type of Burst. Status: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle 1, CBS, ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle? 1, CBS Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABLE?	
Description	This query returns the enable/disable status of CBS and EBS Burst Size for selected service. At *RST condition CBS is enabled and EBS is disabled. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABLE? <wsp> <Service>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Burst Size Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABLE 1, CBS, ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABLE? 1, CBS Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Description	This query returns the CBS and EBS burst sizes for selected service. At *RST condition, the value is set to 12144. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe? <wsp><Service>, <Direction>, <Burst Size Type>,[<Size>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS Size: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the burst size. This parameter is optional. If no token is specified, the current burst size value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Size>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE?

Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the burst size for selected burst size type. MAXimum, Maximum is selected as the burst size. MINimum, Minimum is selected as the burst size.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE? 1, LTOR,cbs
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE:ENABle? 1, CBS

:SOURce:DATA:TELecom:ETHerNet:ESAM:CONFig:SERVices:S LAParameter:INFRate	
Description	This command sets the CIR and CIR+EIR for the selected service. At *RST condition, the rate is 50%* Line Rate for CIR and 75%*Line Rate for CIR+EIR. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHerNet:ESAM:CONFig:SERVices:SLAParameter:INFRate <wsp><Service>, <Information Rate Type>, <Direction>, <Value>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Information Rate Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the information rate for the selected service. CIR: CIR (Mbit/s) CIREIR: EIR +CIR (Mbit/s) Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Value: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of the selected information rate type. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate	
Response Syntax	<Size>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR 1, CIR,LTOR,50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:NOBSequence?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE	
Description	This commands enables/disables the CIR and CIR+EIR for the selected service. At *RST condition CIR is enabled and CIR+EIR is disabled. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE <wsp><Service>, <Information Rate Type>, <Status>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Information Rate Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the information rate for the selected service. CIR: CIR. CIREIR: EIR Status: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Size>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABLE 1, Cir,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARAMeters:NOBSequence?

:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE?	
Description	This query returns the enable/disable status of CIR and CIR+EIR for the selected service. At *RST condition CIR is enabled and CIR+EIR is disabled. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABLE? <wsp><Service>, <Information Rate Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Information Rate Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the information rate for the selected service. CIR: CIR CIREIR: EIR
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABLE 1, CIR, 1 SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABLE? 1, CIR Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:ESAM: CONFig:BURSt:PARAMeters:BIRFrame

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?	
Description	This query returns the CIR and CIR+EIR for the selected service. At *RST condition, the rate is 50%* Line Rate for CIR and 75%*Line Rate for CIR+EIR. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate? <wsp><Service>, <Information Rate Type>, <Direction>,[<Value>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Information Rate Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the information rate for the selected service. CIR: CIR (Mbit/s) CIREIR: EIR +CIR (Mbit/s) Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Value: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value of the selected information rate. This parameter is optional. If no token is specified, the current information rate value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?	
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configured value for the selected information rate type.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR 1, CIR, LTOR, 50 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR? 1, CIR, LTOR Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:RDERatio

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE

Description	This command enables/diables performance criteria for the selected service. At *RST condition, the value is set to enabled for both direction. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE <wsp><Service>, <direction>, <Type>, <Status>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the performance criteria for the selected service. MAXJitter, Max jitter (ms). MAXRTLatency, Max Round-Trip latency (ms). MAXFloss, Max frame loss (%). Status: The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE	
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE 1, LTOR,MAXJ,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:RDERatio?

**:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S
LAParameter:PERCriteria:ENABLE?**

Description	This query returns the enable/disable status of performance criteria for the selected service. At *RST condition, the value is set to be enabled for both directions. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE? <wsp><Service>, <direction>, <Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the performance criteria for the selected service. MAXJitter, Max jitter (ms). MAXRTLatency, Max Round-Trip latency (ms). MAXFLoss, Max frame loss (%).
Response Syntax	<Status>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle?	
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle 1, LTOR,MAXJ,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle? 1, LTOR,MAXJ Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue	
Description	This command sets performance criteria values for the selected service. The *RST condition the values for Jitter to 2.0ms, Latency to 15.0ms and Frame Loss to 0.1%. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue <wsp> <Service>, <direction>, <Type>, <Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the performance criteria for the selected service. MAXJitter, Max jitter (ms). MAXRTLatency, Max Round-Trip latency (ms). MAXFloss, Max frame loss (%). Value: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the performance criteria values for the selected service. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
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:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue	
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue 1, LTOR,MAXJ,1000
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN?

:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue?	
Description	This query returns the performance criteria values for the selected service. At *RST condition the values for Jitter to 2.0ms, Latency to 15.0ms & Frame Loss to 0.1%. Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue? <wsp> <Service>, <direction>, <Type>,[<DEfault: Default value>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the performance criteria for the selected service. MAXJitter, Max jitter (ms). MAXRTLatency, Max Round-Trip latency (ms). MAXFloss, Max frame loss (%). DEfault: Default value: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current performance criteria value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEfault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue?	
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configured performance criteria values for the selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue 1, LTOR,MAXJ,1000 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue? 1, LTOR,MAXJ Returns: 1000
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate	
Description	This command sets the Burst max rate for selected service. At *RST condition, the value is equal to Line rate. Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Burst Max Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate <wsp><Service>, <Direction>, <Value>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Burst max rate. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate 1, LTOR,65
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARAMeters:NOBSequence

:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:BMRate?	
Description	This query returns the Burst max rate for selected service. At *RST condition, the value is equal to Line rate. Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Burst Max Rate
Syntax	:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:BMRate? <wsp><Service>, <Direction>,[<Value>]
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Burst max rate. This parameter is optional. If no token is specified, the current Burst max rate value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARAmeter:BMRate?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configured Burst max rate value.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARAmeter:BMRate 1, LTOR,65 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARAmeter:BMRate? 1, LTOR Returns: 65
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARAmeters:NOBSequence?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle	
Description	This command enables/disables Traffic policing. At *RST condition, this value is set to Enabled Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle <wsp> <Service>, <Status>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:RESDefault

:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:ENABle?

Description	This query returns the enable/disable status of Traffic policing. At *RST condition, this value is set to Enabled Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:ENABle? <wsp><Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10.
Response Syntax	<status>
Response(s)	status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:ENABle 1, ON SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:ENABle? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:SLAPArAmeter:PERCriteria: ENABle

:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:VALue	
Description	This command sets the Traffic Policing value for the selected service. At *RST Condition value is set to 100 (Mbits/s) Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHeRnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:VALue <wsp><Service>, <Direction>, <Traffic Policing Value>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Traffic Policing Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets Traffic Policing Value for the selected Service. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue	
Response Syntax	<status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABLE 1, 1 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue 1, LTOR,99.0
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABLE?

:SOURce:DATA:TELecom:ETHeTnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:VALue?	
Description	This command returns the Traffic Policing value for the selected service. At *RST Condition value is set to 100 (Mbits/s) Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHeTnet:ESAM:CONFig:SERVices:TPARAmeter:TRAPolicing:VALue? <wsp><Service>, <Direction>,[<Traffic Policing Value>]
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Traffic Policing Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Traffic Policing Value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue?	
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Traffic policing value.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, 1 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue? 1, LTOR
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate

EtherSAM - Global

:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent?	
Description	This query returns LOOPS alarms for One Way Latency Measurement Mode. Navigation Path: Test > EtherSAM > Setup > EtherSAM > Global > Global Options Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode - LOOPS-L/LOOPS-R
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent? <wsp><Latency Measurment Mode>
Parameter(s)	Latency Measurment Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Loss Of 1PPS Alarm type. LOPPSL: Loss Of 1PPS Local. LOPPSR: Loss Of 1PPS Remote.
Response Syntax	<Alarm Current State.>
Response(s)	Alarm Current State.: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns theLoss Of 1PPS Alarm Current State.
Example(s)	FETCh:DATA:TEL:ETH:ESAM:GLOBal:LATency:ALARm:CURRent? LOPPSL
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?	
Description	This query returns the Global test duration estimate. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Global Test duration estimation
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the Global test duration estimate
Example(s)	FETC:DATA:TEL:ETH:ESAM:GLOB:TDURation:EST?
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSS:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPAddress?	
Description	This query returns the WAN IP of the local unit. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > EtherSAM > Graphic (WAN IP address)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?
Response Syntax	<IP Address>
Response(s)	IP Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local WAN IP Address
Example(s)	FETC:DATA:TEL:ETH:ESAM:NATD:LWIP? Returns the local's WAN IP Address
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?

:FETCh:DATA:TELEcom:ETHernet:ESAM:NATDiscovery:STATUs?

Description	This query returns the NAT discovery status. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > EtherSAM > Graphic (NAT discovery status)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:NATDiscovery:STATUs?
Response Syntax	<Nat Status>
Response(s)	Nat Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns NAT discovery status
Example(s)	FETC:DATA:TEL:ETH:ESAM:NATD:STAT? Returns the NAT discovery status
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:NATDiscovery:STATUs?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE	
Description	This command enables/disables Ramp/Burst Service Configuration Test. At *RST condition the Ramp is enabled and Burst is disabled. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Configuration Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE <wsp><Test>,<Enable>
Parameter(s)	Test: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Service CONFig Test. BURSTTest: Burst test RAMPTEST: Ramp test Enable: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Service CONFig Test. ON: Enabled OFF: Disabled
Response Syntax	<Nat Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE RAMPTest,OFF
See Also	SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SERVice:ENable

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE?

Description	This query returns the enable/disable status of Burst/Ramp Service Configuration Test. At *RST condition the Ramp is enabled and Burst is disabled. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Configuration Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE? <wsp><Test>
Parameter(s)	Test: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Service CONFig Test. BURSTTest: Burst test RAMPTEST: Ramp test
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Service Configuration Test. 1 Service Configuration Ramp/Burst Test Enabled 0 Service Configuration Ramp/Burst Test Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE RAMPTest,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE? RAMPTest Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SErvice:ENAbLe?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode	
Description	This command sets the Latency measurement mode. At *RST condition, the value is set to Round Trip. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode <wsp><Latency Measurement Mode>
Parameter(s)	Latency Measurement Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Latency measurement mode. ONEWay: One Way RTLATENCY: Round Trip Latency
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?

Description	This query returns the Latency measurement mode. At *RST condition, the value is Round Trip. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?
Response Syntax	<Latency measurement mode>
Response(s)	Latency measurement mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Latency measurement mode. ONEWAY, One way is selected as latency mode. RTLATENCY, Round Trip Latency is selected as latency mode.
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM RTLATENCY SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM? Returns: RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

:SOURce:DATA:TELeom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus	
Description	This commands eanbles/disables the Per direction configuration. At *RST condition value is true. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Per direction configuration
Syntax	:SOURce:DATA:TELeom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the direction configuration status. ON, Enables the per direction status. OFF, Disables the per direction status.
Response Syntax	<Latency measurement mode>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT ON
See Also	FETCh:DATA:TELeom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

:SOURce:DATA:TELeom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus?

Description	This query returns the on/off status of Per direction configuration. At *RST condition value is true. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Per direction configuration
Syntax	:SOURce:DATA:TELeom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. This query returns the Global test duration estimate
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT ON SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT? Returns: 1
See Also	FETCh:DATA:TELeom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation	
Description	This commands sets the duration for Service Performance Test. At *RST condition value is 10 min. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test - Subtest Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation <wsp><Duration>
Parameter(s)	Duration: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the service performance test Duration in DD:HH:MM:SS
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR 10D:00:10:00
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation?

Description	This query returns the duration for Service Performance Test. At *RST condition value is 10 min. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test - Subtest Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the Global test duration estimate
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR 10D:00:10:00 SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR? Returns: 10D:00:10:00
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTTest:ENABled	
Description	This commands enables/disables the Service Performance Test. At *RST condition value is ON/OFF. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTTest:ENABled <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB ON SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB? Returns: 1
See Also	SOUR[1..n]:DATA:TEL:ETH:ESAM:GLOB:SPRTTest:DUR

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTTest:ENABled?

Description	This query returns the on/off status of Service Performance Test. At *RST condition value is 10 min. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTTest:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB ON SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB? Returns: 1
See Also	SOUR[1..n]:DATA:TEL:ETH:ESAM:GLOB:SPRTTest:DUR?

:SOURce:DATA:TELecom:ETHernet:ESAM:REStore:DEFault	
Description	This command sets the EtherSAM configuration to default settings. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Restore EtherSAM Defaults
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:REStore:DEFault
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:REStore:DEFault
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault SOURce:DATA:TELecom:ETHernet:RFC:REStore:DEFault SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:REStore:DEFault SOURce:DATA:TELecom:REStore:DEFault

EtherSAM - Burst

:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:CBS:TIME?

Description	This query returns CBS Time for selected service and direction. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > CBS Test Time
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:CBS:TIME? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology. P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<CBS Time>
Response(s)	CBS Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns CBS Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:CBS:TIME? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:EBS:TIME?	
Description	This query returns EBS Time for selected service and direction. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > EBS Test Time
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:EBS:TIME? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology. P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<EBS Time>
Response(s)	EBS Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns EBS Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:EBS:TIME? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TBURst:TIME?

Description	This query returns Total Burst Time for selected service and direction Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Total Burst Test Time
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TBURst:TIME? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology. P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Total BURST time>
Response(s)	Total BURST time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Total Burst Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:TBURst:TIME? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:FLOSS?

:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TOTal?	
Description	This query returns the Total values for CBS/EBS/Total Burst Time for selected service. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Total
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:BURSt:TOTal? <wsp><Direction>, <Type>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type pf burst parameter. CBS: CBS EBS: EBS TBURST: Total Burst a
Response Syntax	<BURST>
Response(s)	BURST: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Total values for CBS/EBS/Total Burst Time for specified service.
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:TOT? LTOR,CBS
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame	
Description	This command sets the Burst/IR frame ratio. At *RST condition the value is set to 90. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Burst/IR Frame Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame <wsp> <Burst IR frame ratio>
Parameter(s)	Burst IR frame ratio: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Burst/IR frame ratio. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<BURST>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame 20
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle ?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame?	
Description	This query returns the Burst/IR frame ratio. At *RST condition the value is set to 90. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Burst/IR Frame Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame? [<wsp> <Burst IR frame ratio>]
Parameter(s)	Burst IR frame ratio: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Burst/IR frame ratio. This parameter is optional. If no token is specified, the current Burst/IR frame ratio value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Burst ir Frame ratio>
Response(s)	Burst ir Frame ratio: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Burst/IR frame ratio.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame 20 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame? Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence	
Description	This command sets the number of Burst sequence. At *RST condition the value is set to 2. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Number of Burst Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence <wsp> <Number of Burst Sequence>
Parameter(s)	Number of Burst Sequence: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of Burst sequence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Burst ir Frame ratio>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence 6
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?	
Description	This query returns the number of burst sequence. At *RST condition the value is set to 2. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Number of Burst Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?[<wsp><Number of Burst Sequence>]
Parameter(s)	Number of Burst Sequence: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the number of Burst sequence. This parameter is optional. If no token is specified, the current Burst sequence value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Number of burst Sequence>
Response(s)	Number of burst Sequence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of Burst sequence. MAXimum, returns the Burst sequence as maximum. MINimum, returns the Burst sequence as minimum.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio	
Description	This command sets the refill delay ratio. At *RST condition the value is set to 50. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Refill Delay Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio <wsp><Refil delay Ratio>
Parameter(s)	Refil delay Ratio: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the refill delay ratio (%). MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Number of burst Sequence>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:BURS:PAR:RDER 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?	
Description	This query returns the refill delay ratio. At *RST condition the value is set to 50. Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Refill Delay Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio? [<wsp> <Refil delay Ratio>]
Parameter(s)	Refil delay Ratio: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the refill delay ratio (%). This parameter is optional. If no token is specified, the current refill delay ratio value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Refil Delay Ratio>
Response(s)	Refil Delay Ratio: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the refill delay ratio (%). MAXimum, returns the refill delay ratio as maximum. MINimum, returns the refill delay ratio as minimum.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio 50 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABLE

EtherSAM - Ramp

:FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?

Description	This query returns the Ramp duration. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Ramp Duration
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?
Response Syntax	<RAMP DURATION>
Response(s)	RAMP DURATION: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Ramp Duration
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD	
Description	This command adds the step value. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Add Step
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD <wsp> <Step Value>
Parameter(s)	Step Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Step value to add
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD 10
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:PDIR:CONF:STAT

:SOURce:DATA:TELeom:ETHernet:ESAM:RAMP:STEP:DEFault

Description	This command resets steps to default settings. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Defaults
Syntax	:SOURce:DATA:TELeom:ETHernet:ESAM:RAMP:STEP:DEFault
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELeom:ETHernet:ESAM:RAMP:STEP:DEFault
See Also	SOURce:DATA:TELeom:ETHernet:ESAM:REStore:DEFault

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELeTe	
Description	This command deletes the step value. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Delete Step
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELeTe <wsp> <Step Index>
Parameter(s)	Step Index: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Index of the step to be deleted
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELeTe 2
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:PDIR:CONF:STAT?

:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:TIME

Description	This command sets the ramp Step Time. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Step Time
Syntax	:SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:TIME <wsp> <Ramp Step Time>
Parameter(s)	Ramp Step Time: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set Ramp Step Time MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:TIME 7
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSS?

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?	
Description	This query returns the ramp Step Time. Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?[<wsp> <Ramp Step Time>]
Parameter(s)	Ramp Step Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns Ramp Step Time This parameter is optional. If no token is specified, the current Ramp Step Time value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<RAMP STEPTIME>
Response(s)	RAMP STEPTIME: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Ramp Step Time
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME 7 SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME? Returns: 7
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Fibre Channel

:FETCh:DATA:TELEcom:FIBer:PORT:DTOPology?

Description	This query returns the discovered topology for storage network. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Discovered Topology
Syntax	:FETCh:DATA:TELEcom:FIBer:PORT:DTOPology?
Response Syntax	<Dtopology>
Response(s)	Dtopology: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the discovered topology for storage network. FABRIC, Fabric is retrieved. PTPOINT, Point to Point is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON FETCh:DATA:TEL:FIB:PORT:LOG FETC:DATA:TEL:FIB:PORT:DTOP?
See Also	FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?	
Description	This query returns the fabric login status for the storage network. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Fabric Status
Syntax	:FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the fabric login status for the storage network. LOGGEDIN, Logged-in is retrieved. FAILED, Failed is retrieved. INPROGRESS, In progress is retrieved. LOGGEDOUT, Logged-out is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON FETCh:DATA:TEL:FIB:PORT:LOG FETC:DATA:TEL:FIB:PORT:FLOG:STAT?
See Also	FETCh:DATA:TELEcom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:PORT:LOGin

Description	This command sends the login request. This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Login
Syntax	:FETCh:DATA:TELecom:FIBer:PORT:LOGin
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON FETCh:DATA:TEL:FIB:PORT:LOG
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:PORT:PLOGin:STATus?	
Description	This query returns the port login status for the storage network. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Port Status
Syntax	:FETCh:DATA:TELEcom:FIBer:PORT:PLOGin:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the port login status for the storage network. LOGGEDIN, Logged-in is retrieved. FAILED, Failed is retrieved. INPROGRESS, In progress is retrieved. LOGGEDOUT, Logged-out is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON FETCh:DATA:TEL:FIB:PORT:LOG FETC:DATA:TEL:FIB:PORT:PLOG:STAT?
See Also	FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?

:SOURce:DATA:TELecom:FIber:PORT:ADVertised:BBCRedit

Description	This command sets the advertised Buffer to Buffer (BB) credit during login. At *RST, this value is set to 10. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Advertised BB_Credit
Syntax	:SOURce:DATA:TELecom:FIber:PORT:ADVertised:BBCRedit <wsp> <Bbcredit>
Parameter(s)	Bbcredit: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the advertised BB credit during login. Choices are 0 through 65535. MAXimum: Maximum MINimum: Minimum
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:ADV:BBCR 60
See Also	SOURce:DATA:TELecom:FIber:PORT:AVAIlable:BBCRedit

:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?	
Description	This query returns the advertised Buffer to Buffer (BB) credit during login. At *RST, this value is set to 10. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Advertised BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?[<wsp>< BB Credit>]
Parameter(s)	BB Credit: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value will be returned. MAXimum: Maximum MINimum: Minimum
Response Syntax	<Bbcredit>
Response(s)	Bbcredit: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the advertised BB credit during login.
Example(s)	SOUR:DATA:TEL:FIB:PORT:ADV:BBCR 60 SOUR:DATA:TEL:FIB:PORT:ADV:BBCR? Returns: 60
See Also	SOURce:DATA:TELecom:FIBer:PORT:AVAIlable:BBCRedit?

:SOURce:DATA:TELecom:FIBer:PORT:AVAIlable:BBCRedit

Description	This command sets the number of AvailableBB_Credit. At *RST, this value is set to 10. Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Available BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:AVAIlable:BBCRedit <wsp><BB Credit>
Parameter(s)	BB Credit: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of available BB credit. Choices are 0 through 65535. MAXimum: Maximum allowed value. MINimum: Minimum allowed value.
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:PORT:AVA:BBCR 25
See Also	SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit

:SOURce:DATA:TELEcom:FIBer:PORT:AVailable:BBCredit?	
Description	This query returns the number of available Available BB_Credit. At *RST, this value is set to 10. Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Available BB_Credit
Syntax	:SOURce:DATA:TELEcom:FIBer:PORT:AVailable:BBCredit?[<wsp><BB Credit>]
Parameter(s)	BB Credit: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value is returned. MAXimum: Maximum allowed value. MINimum: Minimum allowed value.
Response Syntax	<Bbcredit>
Response(s)	Bbcredit: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of available BB credit.
Example(s)	SOUR:DATA:TEL:FIB:PORT:AVA:BBCR 25 SOUR:DATA:TEL:FIB:PORT:AVA:BBCR? Returns: 25
See Also	SOURce:DATA:TELEcom:FIBer:PORT:ADVertised:BBCredit?

:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABLE

Description	This command enables/disables the buffer to buffer flow control. At *RST, this value is set to ON. Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:PORT:FCON:ENAB ON
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELEcom:FIBer:PORT:FCONtrol:ENABLE?	
Description	This query returns the on/off status of buffer to buffer flow control. At *RST, this value is set to ON. Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Enable
Syntax	:SOURce:DATA:TELEcom:FIBer:PORT:FCONtrol:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:PORT:FCON:ENAB ON SOUR:DATA:TEL:FIB:PORT:FCON:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

Description	This command enables/disables login. At *RST, this value is set to OFF. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
See Also	SOURce:DATA:TELecom:FIBer:PSP

:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?	
Description	This query returns the on/off status of login. At *RST, this value is set to OFF. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the login status.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON SOUR:DATA:TEL:FIB:PORT:LOG:STAT? Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PSP?

:SOURce:DATA:TELecom:FIBer:PORT:WDEStination

Description	This command sets the destination World Wide Name (WWN) address. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Destination
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WDEStination <wsp><Wdestination>
Parameter(s)	Wdestination: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the destination World Wide Name (WWN) for storage network.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FIB:PORT:WDES AA-00-00-AA-10-00-00-AA
See Also	SOURce:DATA:TELecom:FIBer:PORT:WSOource

:SOURce:DATA:TELEcom:FIBer:PORT:WDEStination?	
Description	This query returns the destination World Wide Name (WWN) address. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Destination
Syntax	:SOURce:DATA:TELEcom:FIBer:PORT:WDEStination?
Response Syntax	<Wdestination>
Response(s)	Wdestination: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the destination World Wide Name (WWN) for storage network.
Example(s)	SOUR:DATA:TEL:FIB:PORT:WDES AA-00-00-AA-10-00-00-AA SOUR:DATA:TEL:FIB:PORT:WDES? Returns: AA-00-00-AA-10-00-00-AA
See Also	SOURce:DATA:TELEcom:FIBer:PORT:WSOURCE?

:SOURce:DATA:TELecom:FIber:PORT:WSource

Description	This command sets the World Wide Name (WWN) source address. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Source
Syntax	:SOURce:DATA:TELecom:FIber:PORT:WSource <wsp><Wsource>
Parameter(s)	Wsource: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the source World Wide Name (WWN) for storage network.
Response Syntax	<Wdestination>
Example(s)	SOUR:DATA:TEL:FIB:PORT:WSO AA-00-00-AA-10-00-00-12
See Also	SOURce:DATA:TELecom:FIber:PORT:WDEStination

:SOURce:DATA:TELecom:FIBer:PORT:WSOurce?	
Description	This query returns the World Wide Name (WWN) source address. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Source
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WSOurce?
Response Syntax	<Wsource>
Response(s)	Wsource: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the source World Wide Name (WWN).
Example(s)	SOUR:DATA:TEL:FIB:PORT:WSO AA-00-00-AA-10-00-00-12 SOUR:DATA:TEL:FIB:PORT:WSO? Returns: AA-00-00-AA-10-00-00-12
See Also	SOURce:DATA:TELecom:FIBer:PORT:WDEStination?

Labels

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted

Description	This command sets the expected STS/AU Path (C2) of High Order Path (HOP). At *RST condition, the CONFig is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Expected Navigation Path: Results > Traces > Labels - STS/AU Path (C2) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted <wsp><Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the expected path signal label. EQUipped: Equipped non-specific. FVTMode: Floating VT (Virtual Tributary) mode. LOCKed: Locked VT (Virtual Tributary) mode. AMDS3: asynchronous Mapping for DS3. MDEvelopment: Mapping under Development. AM140: asynchronous Mapping for 140M (DS4NA). ATMM: Mapping for ATM. MDQDb: Mapping for DQDB. FDDim: asynchronous Mapping for Fiber Distributed Data Interface (FDDI). MHDLc: Mapping of HDLC (High-Level Data Link Control) over SONET. SSElf: SDL with self-synchronization scrambler. MHLaps: Mapping of HDLC (High-Level Data Link Control)/LAPS (Link Access Procedure for SDH). SSET: Set SDL with use of a set-reset scrambler. M10ethernet: 10 Gbps ethernet (IEEE 802.3). GFP: GFP (Generic Framing Procedure). RHPPp: Reserved [obsolete HDLC (High-Level Data Link Control)/PPP (Point-to-Point Protocol) framed]. TSIGnal: Test signal, ITU-T 0.181 specific mapping. AMODuk: Async Mapping of ODUK M10Fc: Mapping 10 Gbits/S FC

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted

Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP EQUIPPED SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted?

Description	This query returns the expected STS/AU Path (C2) of High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Expected Navigation Path: Results > Traces > Labels - STS/AU Path (C2) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted?
Response Syntax	<Label>

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted?	
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected path signal label. EQUIPPED, Equipped non-specific. FVTMODE, Floating Virtual Tributary (VT) mode. LOCKED, Locked Virtual Tributary (VT) mode. AMDS3, asynchronous Mapping for Digital Signal-level 3 (DS3). MDEVELOPMENT, Mapping under development. AM140, asynchronous Mapping for 140M (DS4NA). ATMM, Mapping for ATM. MDQDB, Mapping for DQDB. FDDIM, asynchronous Mapping for Fiber Distributed Data Interface (FDDI). MHDLc, Mapping of High-Level Data Link Control (HDLC) over SONET. SSELF, SDL with self-synchronization scrambler. MHLAPS, Mapping of High-Level Data Link Control (HDLC)/Link Access Procedure for SDH (LAPS). SSET, Set SDL with use of a set-reset scrambler. M10ETHERNET, 10 Gbps ethernet (IEEE 802.3). GFP, Generic Framing Procedure (GFP). RHPPP, Reserved [obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed]. TSIGNAL, Test signal, ITU-T 0.181 specific mapping. AMODUK, Async Mapping of ODUK M10FC, Mapping 10 Gbits/S FC
Example(s)	SENSe:DATA:TEL:SDHS:HOP:PATH:LAB:EXP EQUIPPED SENSe:DATA:TEL:SDHS:HOP:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq

Description	This command enables/disables the PLM-P/UNEQ-P / HP-PLM/HP-UNEQ monitoring. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ Navigation Path: Results > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Signal Label Mismatch for the expected message as well as UNEQ-P (Unequipped - Path) monitoring. ON: Enabled OFF: Disabled
Response Syntax	<Label>
Example(s)	SENS:DATA:TEL:SDHS:HOP:PUN ON SENS:DATA:TEL:SDHS:HOP:PUN? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted?

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?	
Description	This query returns the on/off status of PLM-P/UNEQ-P / HP-PLM/HP-UNEQ monitoring. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ Navigation Path: Results > Traces > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Payload Label Mismatch - Path (PLM-P) / Unequipped - Path (UNEQ-P). 1 - UNEQ-P status is enabled. 0 - UNEQ-P status is disabled.
Example(s)	SENS:DATA:TEL:SDHS:HOP:PUN ON SENS:DATA:TEL:SDHS:HOP:PUN? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPeCted

:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPeCted

Description	This command sets the expected VT/TU Path (V5) of Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Expected Navigation Path: Results > Traces > Labels - VT/TU Path (V5) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPeCted <wsp> <Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the path signal label. EQUipped: the Equipped non-specific path signal label. ASYNchronous: the Asynchronous path signal label. BISYNch: the BITS (Bit Synchronous) path signal label. BYSYNch: the BYTeS (Byte Synchronous) path signal label. SIGNal: the extended path Signal. TEST: the Test signal, ITU-T 0.181 specific mapping path signal label.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP EQU SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPeCted?

:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPeCted?	
Description	This query returns the expected VT/TU Path (V5) of Low Order Path (LOP). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Expected Navigation Path: Results > Traces > Labels - VT/TU Path (V5) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPeCted?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQUIPPED, Unequipped path signal label is selected. EQUIPPED, Equipped non-specific path signal label is selected. ASYNCHRONOUS, Asynchronous path signal label is selected. BISYNCH, Bit Synchronous path (BITS) signal label is selected. BYSYNCH, Byte Synchronous path signal (BYTES) label is selected. SIGNAL, Extended path Signal is selected. TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP EQU SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPeCted

:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq

Description	This command enables/disables PLM-V/UNEQ-V / LP-PLM/LP-UNEQ monitoring. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ Navigation Path: Results > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Signal Label Mismatch for the expected message as well as UNEQ-P (Unequipped - Path) monitoring of Low Order Path (LOP). ON: Enabled OFF: Disabled
Response Syntax	<Label>
Example(s)	SENS:DATA:TEL:SDHS:LOP:PUN ON SENS:DATA:TEL:SDHS:LOP:PUN? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?

:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?	
Description	This query returns the on/off status of PLM-V/UNEQ-V / LP-PLM/LP-UNEQ monitoring. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ Navigation Path: Results > Traces > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Payload Label Mismatch - VT (PLM-V) / Unequipped - VT (UNEQ-V).
Example(s)	SENS:DATA:TEL:SDHS:LOP:PUN ON SENS:DATA:TEL:SDHS:LOP:PUN? Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq

:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted

Description	This command sets the expected TU Path (C2) of Low Order Path (LOP-TU3). At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Expected Navigation Path: Results > Traces > Labels - TU Path (C2) - Expected
Syntax	:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted <wsp><Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the path signal label. EQUipped: the Equipped non-specific path signal label. GFP: the GFP. LOCKed: the LOCKED Locked VT Mode/TU Mode signal label. AM140: the Async Mapping of 140M in C-4 signal label. ATMM: the ATM Mapping Signal label. MDEVELOPMENT: the Mapping under development signal label. MDQDb: the Mapping for DQDB signal label. AMDS3: the Async Mapping for DS3 label. M10Fc: the Mapping 10 Gbit/s FC label. FDDim: the Async Mapping for FDDI label. MHDLc: the Mapping of HDLC label. MHLaps: the Mapping of HDLC/LAPS label. AMODuk: the Async Mapping of ODUK label. REServed: the RESERVED label. RHPPp: the RESERVED label. SSELf: the SDL self-synch scrambler label. SSET: the SDL set-reset scrambler label. M10ethernet: the 10 Gbit/s Ethernet (IEEE 802.3) label. TSIGNal: the Test Signal, ITU-T 0.181 label. FVTMode: the 02 Floating VT Mode label. AISTcm: the AIS (TCM) label.

:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPeCted	
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP EQU SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPeCted?

:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted?	
Description	This query returns the expected TU Path (C2) of Low Order Path (LOP-TU3). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Expected Navigation Path: Results > Traces > Labels - TU Path (C2) - Expected
Syntax	:SENSe:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel:EXPeCted?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQUIPPED, Unequipped path signal label is selected. EQUIPPED, Equipped non-specific path signal label is selected. ASYNCHRONOUS, Asynchronous path signal label is selected. BISYNCH, Bit Synchronous path (BITS) signal label is selected. BYSYNCH, Byte Synchronous path signal (BYTES) label is selected. SIGNAL, Extended path Signal is selected. TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP EQU SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELEcom:SDHSonet:LOP:PATH:LABel:EXPeCted

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel	
Description	This command sets the generated STS/AU Path (C2) of High Order Path (HOP). At *RST condition, the CONFig is set to TSiGnal. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel <wsp><Label>

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

Parameter(s)	Label:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the path signal.
	UNEQuipped: unequipped
	EQUipped: equipped non-specific
	FVTMode: floating VT (Virtual Tributary) Mode
	LOCKed: locked VT (Virtual Tributary) Mode
	AMDS3: asynchronous mapping for DS3 (Digital Signal-level 3)
	MDEvelopment: mapping under development
	REServed: reserved
	AM140: asynchronous mapping for 140M (DS4NA)
	ATMM: mapping for ATM
	MDQDb: mapping for DQDB
	FDDim: asynchronous mapping for FDDI
	MHDLC: mapping of HDLC over SONET
	SSELf: SDL with self-synchronization scrambler
	MHLaps: mapping of HDLC/LAPS
	SSET: set SDL with use of a set-reset scrambler
	M10ETHERNET: 10 Gbps ethernet (IEEE 802.3)
	GFP: Generic Framing Procedure (GFP)
	RHPPp: reserved [Obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed]
	S1W: the STS-1 w/1 VTx payload defect; S2W: the STS-1 w/2 VTx payload defect;... up to S28W: the STS-1 w/28 VTx payload defect
	TSIGnal: the test signal, ITU-T 0.181 specific mapping.
	AIStcm: the STS (Synchronous Transport Signal) SPE (Synchronous Payload Envelope) AIS (Alarm Indication Signal) (TCM)
	AMODUK: Async Mapping of ODUK
	M10FC: Mapping 10 Gbits/S FC

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel	
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:PATH:LAB EQUIPPED SOUR:DATA:TEL:SDHS:HOP:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATtern:B16?

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

Description	This query returns the STS/AU Path (C2) of High Order Path (HOP). At *RST condition, the CONFig is set to TSiGnal. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?
Response Syntax	<Label>

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?	
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label selected: UNEQUIPPED, Unequipped. EQUIPPED, Equipped non-specific. FVTMODE, Floating Virtual Tributary (VT) Mode. LOCKED, Locked Virtual Tributary (VT) Mode. AMDS3, Asynchronous mapping for Digital Signal-level 3 (DS3). MDEVELOPMENT, Mapping under development. RESERVED, Reserved. AM140, Asynchronous mapping for 140M (DS4NA). ATMM, Mapping for ATM. MDQDB, Mapping for DQDB. FDDIM, Asynchronous mapping for Fiber Distributed Data Interface (FDDI). MHDLC, Mapping of High-Level Data Link Control (HDLC) over SONET. SSELF, SDL with self-synchronization scrambler. MHLAPS, Mapping of High-Level Data Link Control (HDLC)/Link Access Procedure for SDH (LAPS). SSET, Set SDL with use of a set-reset scrambler. M10ETHERNET, 10 Gbps ethernet (IEEE 802.3). GFP, Generic Framing Procedure (GFP). RHPPP, Reserved [Obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed]. S1W, STS-1 w/1 VTx payload defect.; S2W, STS-1 w/2 VTx payload defect; up to S28W, STS-1 w/28 VTx payload defect. TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label. AISTCM, Synchronous Transport Signal (STS) Synchronous Payload Envelope (SPE) Alarm Indication Signal (AIS) (TCM) path signal label. AMODUK, Async Mapping of ODUK M10FC, Mapping 10 Gbits/S FC
Example(s)	SOUR:DATA:TEL:SDHS:HOP:PATH:LAB EQUIPPED SOUR:DATA:TEL:SDHS:HOP:PATH:LAB? Returns: EQUIPPED

:SOURce:DATA:TELEcom:SDHSonet:HOP:PATH:LABel?

See Also

SOURce:DATA:TELEcom:SDHSonet:OVERhead:J1:PATtern:B16

:SOURce:DATA:TELEcom:SDHSonet:LOP:PATH:LABel	
Description	This command sets generated VT/TU Path (V5) of Low Order Path (LOP). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:LOP:PATH:LABel <wsp> <Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the path signal label. UNEQuipped: the unequipped path signal label. EQUipped: the Equipped non-specific path signal label. ASYNchronous: the Asynchronous path signal label. BISYNch: the BITS (Bit Synchronous) path signal label. BYSYnch: the BYTes (Byte Synchronous) path signal label. SIGNal: the extended path Signal. TEST: the Test signal, ITU-T 0.181 specific mapping path signal label. VTAI: the VT SPE AIS (Alarm Indication Signal) (TCM) path signal label.
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU SOUR:DATA:TEL:SDHS:LOP:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel?

:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

Description	This query returns the generated VT/TU Path (V5) of Low Order Path (LOP). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQUIPPED, Unequipped path signal label is selected. EQUIPPED, Equipped non-specific path signal label is selected. ASYNCHRONOUS, Asynchronous path signal label is selected. BISYNCH, Bit Synchronous path (BITS) signal label is selected. BYSYNCH, Byte Synchronous path signal (BYTES) label is selected. SIGNAL, Extended path Signal is selected. TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected. VT AIS, Virtual Tributary (VT) Synchronous Payload Envelope (SPE) Alarm Indication Signal (AIS)(TCM) is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU SOUR:DATA:TEL:SDHS:LOP:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel

:SOURce:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel	
Description	This command sets the generated TU Path (C2) of Low Order Path (LOP-TU3). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Generated
Syntax	:SOURce:DATA:TELEcom:SDHSonet:LOPTu:PATH:LABel <wsp><Label>
Parameter(s)	Label: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the path signal label. UNEQuipped: the unequipped path signal label. EQUipped: the Equipped non-specific path signal label. GFP: the GFP. LOCKED: the LOCKED Locked VT Mode/TU Mode signal label. AM140: the Async Mapping of 140M in C-4 signal label. ATMM: the ATM Mapping Signal label. MDEVELOPMENT: the Mapping under development signal label. MDQDB: the Mapping for DQDB signal label. AMDS3: the Async Mapping for DS3 label. M10FC: the Mapping 10 Gbit/s FC label. FDDIM: the Async Mapping for FDDI label. MHDLC: the Mapping of HDLC label. MHLAPS: the Mapping of HDLC/LAPS label. AMODUK: the Async Mapping of ODUk label. RESERVED: the RESERVED label. RHPPP: the RESERVED label. SSELF: the SDL self-synch scrambler label. SSET: the SDL set-reset scrambler label. M10ETHERNET: the 10 Gbit/s Ethernet (IEEE 802.3) label. TSIGNAL: the Test Signal, ITU-T 0.181 label. FVTMODE: the 02 Floating VT Mode label. AISTCM: the AIS (TCM) label.

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel

Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?	
Description	This query returns the generated TU Path (C2) of Low Order Path (LOP-TU3). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?
Response Syntax	<Label>

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQuipped, UNEQuipped path signal label is selected. EQUipped, EQUipped path signal label is selected. GFP, GFPpath signal label is selected. LOCKED, LOCKED path signal label is selected. AM140, AM140 path signal label is selected. ATMM, ATMM path signal label is selected. MDEVELOPMENT, MDEVELOPMENT path signal label is selected. MDQDB, MDQDB path signal label is selected. AMDS3, AMDS3 path signal label is selected. M10FC, M10FCpath signal label is selected. FDDIM, FDDIM path signal label is selected. MHDLC, MHDLC path signal label is selected. MHLAPS, MHLAPS path signal label is selected. AMODUK, AMODUK path signal label is selected. RESERVED, RESERVED path signal label is selected. RHPPP, RHPPP path signal label is selected. SSELF, SSELFpath signal label is selected. SSET, SSET path signal label is selected. M10ETHERNET, M10ETHERNET path signal label is selected. TSIGNAL, TSIGNAL path signal label is selected. FVTMODE, FVTMODE path signal label is selected. AISTCM, AISTCM path signal label is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB? Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel

Thresholds (RFC 2544)

:SOURce:DATA:TELecom:ETHernet:REMOte:THReshold	
Description	This command sets the RFC 2544 threshold values. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Thresholds
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:THReshold <wsp><Subtest>, <Direction>, <Value>
Parameter(s)	Subtest: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the subtest: BTBack: Back-to-Back FLOsS: Frame Loss LATency: Latency THRoughput: Throughput Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction: TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1-to-P2 for dual port topology. P2TOP1: P2-to-P1 for dual port topology. BIDirectional: Bidirectional Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the threshold value: MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:REMOte:THReshold

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:REM:THR THR,LTOR,40
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:REMote:THReshold?	
Description	This query returns the RFC 2544 threshold values. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Thresholds
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:THReshold? <wsp><Subtest>, <Direction>,[<Value>]
Parameter(s)	Subtest: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the subtest: BTBack: Back-to-Back FLOSs: Frame Loss LATency: Latency THRoughput: Throughput Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction: TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1-to-P2 for dual port topology. P2TOP1: P2-to-P1 for dual port topology. BIDirectional: Bidirectional Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current threshold value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:REMOte:THReshold?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the threshold value.
Example(s)	SOUR:DATA:TEL:ETH:REM:THR THR,LTOR,40 SOUR:DATA:TEL:ETH:REM:THR? THR,LTOR Returns: 40
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THROUGHput:MAXRate

Network

:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes:STATus?	
Description	This query returns the Default Gateway IPv6 address status for Loopback Tool. At *RST condition, this value is device dependent. Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 address status. UNDEFINED, Undefined is retrieved. CHECKING, Checking is retrieved. UNREACHABLE, Unreachable is retrieved. REACHABLE, Reachable is retrieved.
Example(s)	FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes:STATus?
See Also	FETCh:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPV:ADDRes:STATus?

**:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPV
ersion:ADDRes:STATus?**

Description	This query returns the Global IPv6 address status for Loopback Tool. At *RST condition, this value is device dependent. Navigation Path: Lpbk Tool > Network > IP - Global IPv6 Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes:STATus?
See Also	FETCh:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes:STATus?

:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVe rsion:ADDResS:STATus?	
Description	This query returns the Link-Local IPv6 address status for Loopback Tool. At *RST condition, this value is device dependent. Navigation Path: Lpbk Tool > Network > IP - Link-Local IPv6 Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDResS:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETCh:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDResS:STATus?
See Also	FETCh:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDResS:STATus?

:SOURce:DATA:TELeom:ETHernet:NETWork:DATalink:TYPE

Description	This command sets the Frame Format. At *RST condition, this value is set to ETHernet. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Frame Format
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:DATalink:TYPE <wsp><Datalink>
Parameter(s)	Datalink: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the type of datalink. ETHERNETII: ETHERNETII IEEE8023LLCSNAP: 802.3 SNAP
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELeom:ETHernet:NETWork:DATalink:TYPE ETHERNETII
See Also	SOURce:DATA:TELeom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?	
Description	This query returns the Frame Format. At *RST condition, this value is set to ETHernet. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?
Response Syntax	<Datalink>
Response(s)	Datalink: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Frame Format ETHERNETII, Returns ETHERNETII as datalink. IEEE8023LlcSnap, returns 802.3 SNAP as datalink.
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE ETHERNETII SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE? Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRess

Description	This command sets the Default Gateway address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRess <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default gateway address.
Response Syntax	<Datalink>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR 10.192.5.139 SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR? Returns: 10.192.5.139
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRes?	
Description	This query returns the Default Gateway address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default gateway address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR 10.192.5.139 SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR? Returns: 10.192.5.139
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:STATus

Description	This command enables/disables Default Gateway. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:STATus <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the Default gateway status for the smart loopback application. ON, enables the Default gateway. OFF, disables the Default gateway.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT ON SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:TRANsparent:MODE:ENABle

:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:STATus?

Description	This query returns the on/off status of Default Gateway. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:STATus?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Default Gateway status. 1, Default gateway is enabled. 0, Default gateway is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT ON SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:TRANSPARENT:MODE:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATus

Description	This command enables/disables the Automatic IP (DHCP). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATus <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the DHCP status for the smart loopback application. ON, enables the automatic IP. OFF, disables the automatic IP.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT ON SOUR:DATA:TEL:ETH:NETW:DHCP:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:TRANSPARENT:MODE:ENABle

:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATus?	
Description	This query returns the on/off status of Automatic IP (DHCP). At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DHCP:STATus?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the loopback mode status. 1, automatic IP is enabled. 0, automatic IP is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT ON SOUR:DATA:TEL:ETH:NETW:DHCP:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:TRANSPARENT:MODE:ENABLE?

:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault

Description	This command enables/disables the use of factory default MAC Address. At *RST condition, this value is set to AUTOamtic. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Factory Default
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Allows to activate/deactivate the display of a pop-up upon start-up of the module asking to restore the factory settings or not ON, activates the display of a pop-up upon start-up of the module asking to restore the factory settings or not OFF, deactivates the display of a pop-up upon start-up of the module asking to restore the factory settings or not
Response Syntax	<set>
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault ON SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHerneT:NETWork:FACTory:DEFault?	
Description	This query returns the on/off status of Factory Default. At *RST condition, this value is set to AUTOamtic. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Factory Default
Syntax	:SOURce:DATA:TELecom:ETHerneT:NETWork:FACTory:DEFault?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Factory Default State 1, Returns factory default is enable 0, Returns factory default is disable
Example(s)	SOURce:DATA:TELecom:ETHerneT:NETWork:FACTory:DEFault ON SOURce:DATA:TELecom:ETHerneT:NETWork:FACTory:DEFault? Returns: 1
See Also	SOURce:DATA:TELecom:ETHerneT:NETW:GLOB:IPV:MODE?

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDReSS

Description	This command sets the Link-Local IPv6 Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Link-Local IPv6 Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDReSS <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Sets the Local IPv6 Address
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:IPV IPV6 SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:1111 SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR? Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDRes?	
Description	This query returns the Link-Local IPv6 Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Link-Local IPv6 Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Link-Local IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:IPV IPV6 SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:1111 SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR? Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:NETWork:MAC:ADDRess

Description	This command sets the MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:MAC:ADDRess <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the MAC address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR 00:00:00:00:00:00 SOUR:DATA:TEL:ETH:NETW:MAC:ADDR? Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK

:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRes?	
Description	This query returns the MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > Interface > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR 00:00:00:00:00:00 SOUR:DATA:TEL:ETH:NETW:MAC:ADDR? Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK

Description	This command sets the subnet mask. At *RST condition, this value is set to 255:255:000:000. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the subnet mask value.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK 255.255.000.000 SOUR:DATA:TEL:ETH:NETW:SUBN:MASK? Returns: 255.255.000.000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?	
Description	This query returns the subnet mask value. At *RST condition, this value is set to 255:255:000:000. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the subnet mask value.
Example(s)	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK 255.255.000.000 SOUR:DATA:TEL:ETH:NETW:SUBN:MASK? Returns: 255.255.000.000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN

Description	This command enables/disables VLAN Tag. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Set the VLAN for the stream. ON, enables the VLAN. OFF, disables the VLAN.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN ON SOUR:DATA:TEL:ETH:NETW:VLAN? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID	
Description	This command sets the VLAN ID. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID <wsp><Stacked>, <VLAN ID>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VLAN ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) ID. Choices are 0 to 4095. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID 1, 1 SOUR:DATA:TEL:ETH:NETW:VLAN:ID? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRiority

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

Description	This command enables/disables the VLAN Drop Eligible. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit <wsp> <Stacked>, <Set>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. enables/disables the Virtual Local Area Network (VLAN) ID stacked. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification). ON, enables the eligible bit. OFF, disables the eligible bit.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID:ELIG 1, ON SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?	
Description	This query returns the on/off status of VLAN Drop Eligible. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? <wsp><Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. enables/disables the Virtual Local Area Network (VLAN) ID stacked.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Virtual Local Area Network (VLAN) ID eligible bit. 1, eligible bit is enabled. 0, eligible bit is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID:ELIG 1, ON SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

Description	This query returns the VLAN ID. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID? <wsp><Stacked>,[<VLAN ID>]
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VLAN ID: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) ID. This parameter is optional. If no token is specified, the current VLAN ID is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Vlanid>
Response(s)	Vlanid: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) ID.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID 1, 1 SOUR:DATA:TEL:ETH:NETW:VLAN:ID? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRiority	
Description	This command sets the VLAN Priority. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRiority <wsp><Stacked>, <VLAN Priority>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VLAN Priority: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) priority. Choices are 0 to 7. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Vlanid>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:PRI 1, 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority?

Description	This query returns the VLAN Priority. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority? <wsp><Stacked>,[<VLAN Priority>]
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VLAN Priority: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current VLAN priority is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Priority>
Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:PRI 1, 1 SOUR:DATA:TEL:ETH:NETW:VLAN:PRI? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACked	
Description	This command sets the number of stacked VLANs. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACked <wsp><Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Priority>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:STACked 2 SOUR:DATA:TEL:ETH:NETW:VLAN:STACked? Returns: 2
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACKed?

Description	This query returns the number of stacked VLANs. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACKed?
Response Syntax	<Stacked>
Response(s)	Stacked: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the VLAN stacked.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:STACKed 2 SOUR:DATA:TEL:ETH:NETW:VLAN:STACKed? Returns: 2
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:TYPE	
Description	This command selects the VLAN Type. At *RST condition, this value is set to V8100. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Type
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:TYPE <wsp> <Stacked>, <Vtype>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Vtype: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the VLAN type. V8100: VLAN type 8100. V88A8: VLAN type 88A8. V9100: VLAN type 9100. V9200: VLAN type 9200. V9300: VLAN type 9300.
Response Syntax	<Stacked>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE 1, V8100
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

Description	This query returns the VLAN Type. At *RST condition, this value is set to V8100. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE? <wsp><Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Vtype>
Response(s)	Vtype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of the VLAN. V8100, the VLAN type 8100 is selected. V88A8, the VLAN type 88A8 is selected. V9100, the VLAN type 9100 is selected. V9200, the VLAN type 9200 is selected. V9300, the VLAN type 9300 is selected.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE 1, V8100 SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE? 1 Returns: V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN?

Description	This query returns the on/off status of VLAN Tag. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of VLAN type frames. 1, VLAN is enabled. 0, VLAN is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN ON SOUR:DATA:TEL:ETH:NETW:VLAN? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACked?

:SOURce:DATA:TELEcom:ETHernet:PORT:ADDRes:IP

Description	This command sets the port IPv4 address. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Interface > Network > IP - IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:ADDRes:IP <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address in form of string.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:PORT:ADDR:IP 10.1.1.1 SOUR:DATA:TEL:ETH:PORT:ADDR:IP? Returns: 10.1.1.1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:DESTination:IP SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?	
Description	This query returns the port IPv4 address. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Setup > Test Configurator > Interface > Network > IP - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP address in the form of string.
Example(s)	SOUR:DATA:TEL:ETH:PORT:ADDR:IP 10.1.1.1 SOUR:DATA:TEL:ETH:PORT:ADDR:IP? Returns: 10.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE

Description	This command sets the Frame Format for Loopback Tool. At *RST condition, this value is set to ETHernet. Navigation Path: Lpbk Tool > Network > MAC - Frame format
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE <wsp><Datalink>
Parameter(s)	Datalink: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the type of datalink. ETHERNETII: EthernetII IEEE8023LLCSNAP: 802.3 SNAP
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE ETHERNETII
See Also	SOURce:DATA:TELEcom:ETHernet:STream:DATalink?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE?	
Description	This returns the frame format selected for Loopback Tool. At *RST condition, this value is set to ETHernet. Navigation Path: Lpbk Tool > Network > MAC - Frame format
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE?
Response Syntax	<Datalink>
Response(s)	Datalink: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Frame Format ETHERNETII, Ethernet II is set as datalink. IEEE8023LlcSnap,802.3 SNAP is set as datalink.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE ETHERNETII SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DATalink:TYPE? Returns: ETHERNETII
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes

Description	This command sets the default gateway address for Loopback Tool. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default gateway address.
Response Syntax	<Datalink>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes 10.192.5.139
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRes

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes?	
Description	This query returns the default gateway address for Loopback Tool. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default gateway address.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes 10.192.5.139 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRes?
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DEFault:GATeway:ADDRes?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus

Description	This command sets the Default gateway status for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the Default gateway status for the smart loopback application. ON, enables the Default gateway. OFF, disables the Default gateway.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus?	
Description	This query returns the Default gateway status for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Default Gateway status. 1, Default gateway checkbox is enabled. 0, Default gateway checkbox disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus ON SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus

Description	This command sets the DHCP status for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the DHCP status for the smart loopback application. ON, enables the automatic IP. OFF, disables the automatic IP.
Response Syntax	<set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?	
Description	This query returns the DHCP status for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the loopback mode status. 1, automatic IP is enabled. 0, automatic IP is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus ON SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:FACTory:DEFault

Description	This command enables/disables the Factory default for Loopback Tool. At *RST condition, this value is set to AUTOamtic. Navigation Path: Lpbk Tool > Network > MAC - Factory default
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:FACTory:DEFault <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Factory default. ON,Enables Factory default. OFF,Disables Factory default.
Response Syntax	<set>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:FACTory:DEFault ON
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:FACTory:DEFault

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault?	
Description	This query returns the Factory default state for Loopback Tool. At *RST condition, this value is set to AUTOamtic. Navigation Path: Lpbk Tool > Network > MAC - Factory default
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Factory Default State 1,Returns factory default is enable 0,Returns factory default is disable
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault ON SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess	
Description	This command sets the MAC address for Loopback Tool. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Lpbk Tool > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the MAC address.
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:AD Dress?	
Description	This query returns the MAC address for Loopback Tool. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Lpbk Tool > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:ADDress?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:ADDress 00:00:00:00:00:00 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:MAC:ADDress? Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:MAC:ADDress?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK	
Description	This command sets the subnet mask for Loopback Tool. At *RST condition, this value is set to 255:255:000:000. Navigation Path: Lpbk Tool > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK <wsp><address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the subnet mask value.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK 255.255.000.000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK?	
Description	This query returns the subnet mask value for Loopback Tool. At *RST condition, this value is set to 255.255.000.000. Navigation Path: Lpbk Tool > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the subnet mask value.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK 255.255.000.000 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:SUBNet:MASK? Returns: 255.255.000.000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN

Description	This command enables/disables VLAN type for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Set the VLAN for the Smart loopback tool test. ON, enables the VLAN. OFF, disables the VLAN.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN ON
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID	
Description	This command sets the Virtual Local Area Network (VLAN) Identification (ID) for Loopback Tool. At *RST condition, this value is set to 2. Navigation Path: Lpbk Tool > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID <wsp><Stacked>, <Vlanid>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. Vlanid: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) ID. Choices are 0 to 4095. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID 1,1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit

Description	This command enables/disables the Virtual Local Area Network (VLAN) Identification (ID) eligible bit for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit <wsp><Stacked>,<Set>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. enables/disables the Virtual Local Area Network (VLAN) ID stacked. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification). ON, enables the eligible bit. OFF, disables the eligible bit.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit 1,ON
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit?	
Description	This query returns the status of Virtual Local Area Network (VLAN) Identification (ID) eligible bit for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit? <wsp><Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. enables/disables the Virtual Local Area Network (VLAN) ID stacked.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Virtual Local Area Network (VLAN) ID eligible bit. 1, eligible bit is enabled. 0, eligible bit is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit 1,ON SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit? 1 Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID?

Description	This query returns the Virtual Local Area Network (VLAN) Identification (ID) for Loopback Tool. At *RST condition, this value is set to 2. Navigation Path: Lpbk Tool > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID? <wsp><Stacked>,[<Vlanid>]
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. Vlanid: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) ID. This parameter is optional. If no token is specified, the current VLAN ID will be returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Vlanid>
Response(s)	Vlanid: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) ID.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID 1,1 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:ID? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority	
Description	This command sets the Virtual Local Area Network (VLAN) user priority for Loopback Tool. At *RST condition, this value is set to 0. Navigation Path: Lpbk Tool > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority <wsp><Stacked>, <VlanPriority>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VlanPriority: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Virtual Local Area Network (VLAN) priority. Choices are 0 to 7. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Vlanid>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority 1,1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority?

Description	This query returns the Virtual Local Area Network (VLAN) user priority for Loopback Tool. At *RST condition, this value is set to 0. Navigation Path: Lpbk Tool > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority? <wsp><Stacked>,[<VlanPriority>]
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the Virtual Local Area Network (VLAN) stacked. The value for stacked is set to 1 only. VlanPriority: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current VLAN priority will be returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Priority>
Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority 1,1 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:PRIority? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked	
Description	This command sets the number of stacked VLAN for Loopback Tool. At *RST condition, this value is set to 1. Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked <wsp> <Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Priority>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed?

Description	This query returns the number of stacked VLAN for Loopback Tool. At *RST condition, this value is set to 1. Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed?
Response Syntax	<Stacked>
Response(s)	Stacked: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the VLAN stacked.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed 1 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:VLAN:STACKed? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:VLAN:STACKed?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE	
Description	This command selects the Virtual Local Area Network (VLAN) Ethernet type for Loopback Tool. At *RST condition, this value is set to V8100. Navigation Path: Lpbk Tool > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE <wsp> <Stacked>, <Vtype>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. Vtype: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the VLAN type. V8100: VLAN type 8100. V88A8: VLAN type 88A8. V9100: VLAN type 9100. V9200: VLAN type 9200. V9300: VLAN type 9300.
Response Syntax	<Stacked>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE 1,V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE?

Description	This query returns the Virtual Local Area Network (VLAN) Ethernet type for Loopback Tool. At *RST condition, this value is set to V8100. Navigation Path: Lpbk Tool > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE? <wsp><Stacked>
Parameter(s)	Stacked: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked.
Response Syntax	<Vtype>
Response(s)	Vtype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of the VLAN. V8100, the VLAN type 8100 is selected. V88A8, the VLAN type 88A8 is selected. V9100, the VLAN type 9100 is selected. V9200, the VLAN type 9200 is selected. V9300, the VLAN type 9300 is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE 1,V8100 SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE? 1 Returns: V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?	
Description	This query returns the status of VLAN type frames for Loopback Tool. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of VLAN type frames. 1, VLAN is enabled. 0, VLAN is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN ON SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRes:IP

Description	This command sets the port IPv4 address for Loopback Tool. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Lpbk Tool > Network > IP - IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRes:IP <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address in form of string.
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRes:IP 125.105.245.145
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:DESTination:IP SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:DESTination:IP?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRess:IP?	
Description	This query returns the port IPv4 address for Loopback Tool. At *RST condition, this value is set to 10.10.0.0. Navigation Path: Lpbk Tool > Network > IP - IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRess:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP address in the form of string.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRess:IP 125.105.245.145 SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:ADDRess:IP? Returns: 125.105.245.145
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDRess:DESTination:IP SOURce:DATA:TELEcom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion

Description	This command selects the IP Version for Loopback Tool. At *RST condition, this value is set to IPV4. Navigation Path: Lpbk Tool > Network > IP - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion <wsp> <IP Version>
Parameter(s)	IP Version: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the IP version for Smart loopback tool test. IPV6 IPV4
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion?	
Description	This query returns the IP Version for Loopback Tool. At *RST condition, this value is set to IPV4. Navigation Path: Lpbk Tool > Network > IP - IP Version
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion?
Response Syntax	<IP Version>
Response(s)	IP Version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the IP version. IPV4,IPV4 is selected as IP Version. IPV6,IPV6 is selected as IP Version.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion IPV6 SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion? Returns: IPV6
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?

Signal Auto-Detect

:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:CODE?

Description	This query returns the detected Line Coding. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Line Coding
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:CODE?
Response Syntax	<code>
Response(s)	code: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of Line code.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:CODE?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWEr:MINimum?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:DS[1..n]:FRAMing?

Description	This query returns the detected framing. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > DS1/DS3 Framing
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:DS[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value of DS framing.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:DS1:FRAM?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:PATtern?

Description	This query returns the detected Test Pattern. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Test Pattern
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT:PATtern?
Response Syntax	<Maximum Amplitude>
Response(s)	Maximum Amplitude: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Pattern.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:PATT?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:FETCh:DATA:TELeom:SIGNal:AUTO:DETeCt:STATe?

Description	This query returns the signal auto-detect status message. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Detecting/Successful/Failed
Syntax	:FETCh:DATA:TELeom:SIGNal:AUTO:DETeCt:STATe?
Response Syntax	<state>
Response(s)	state: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the signal auto detection state.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:STAT?
See Also	SENSe:DATA:TELeom:OPTical:RX:POWeR:MINimum?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT?

Description	This query returns the status of start signal auto detection. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETECT?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of signal detection 0, abort signal detection is disabled, 1, abort signal detection is enabled
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETECT	
Description	This command starts the signal auto detection. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETECT <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET ON
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT:ABORt

Description	This command stops the signal auto detection. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Abort
Syntax	:SOURce:DATA:TELEcom:SIGNal:AUTO:DETECT:ABORt <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR ON
See Also	SENSe:DATA:TELEcom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETECT:ABORt?	
Description	This query returns the on/off status of the abort signal auto detection. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Abort
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETECT:ABORt?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of abort signal detection 0, abort signal detection is disabled, 1, abort signal detection is enabled
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR ON SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR? Returns: 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELeom:SIGNal:AUTO:DETECT?

Description	This query returns the status of start signal auto detection. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:SOURce:DATA:TELeom:SIGNal:AUTO:DETECT?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of start signal detection 0, signal detection is disabled, 1, signal detection is enabled
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET ON SOUR:DATA:TEL:SIGN:AUTO:DET? Returns: 1
See Also	SENSe:DATA:TELeom:OPTical:TX:POWer?

DS1 Loopback

:FETCh:DATA:TELEcom:DS[1..n]:LOOP:DOWN?	
Description	This command returns the Loop-Down code used for injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Down
Syntax	:FETCh:DATA:TELEcom:DS[1..n]:LOOP:DOWN?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Loopdown values.
Example(s)	FETCh:DATA:TEL:DS1:LOOP:DOWN?
See Also	SOURce:DATA:TELEcom:MDIO:READ

:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?

Description	This command returns the Loop-Up code used for injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Up
Syntax	:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Loopup values.
Example(s)	FETCh:DATA:TEL:DS1:LOOP:UP?
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE	
Description	This command selects the Loop Code. At *RST condition, this value set to CSU. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE <wsp> <Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Loop Code. CSU: CSU (10000/100) INBANDLOCODE1: Loop Code 1 INBANDLOCODE2: Loop Code 2 INBANDLOCODE3: Loop Code 3 INBANDLOCODE4: Loop Code 4 INBANDLOCODE5: Loop Code 5 INBANDLOCODE6: Loop Code 6 INBANDLOCODE7: Loop Code 7 INBANDLOCODE8: Loop Code 8 INBANDLOCODE9: Loop Code 9 INBANDLOCODE10: Loop Code 10 NFAC1: NIU FAC1 (1100/1110) NFAC2: NIU FAC2 (11000/11100) NFAC3: NIU FAC3 (100000/100)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE FAC1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELeom:DS[1..n]:LOOP:CODE:INJect

Description	This events injects either a Loop-Up or Loop-Down. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Up/Loop-Down
Syntax	:SOURce:DATA:TELeom:DS[1..n]:LOOP:CODE:INJect <wsp><Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Loopcode type LOOPUP: LOOPUP LOOPDOWN: LOOPDOWN
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:INJect LOOPUP
See Also	SOURce:DATA:TELeom:MDIO:READ

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE:NAME	
Description	This command selects the Loop Code name. At *RST condition, this value set to Loop Code Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Name
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:LOOP:CODE:NAME <wsp><Loopcode>, <Value>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode ID Range is from 1 To 10. Value: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Loopcode value.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME 1, AAAAA SOUR:DATA:TEL:DS1:LOOP:CODE:NAME? 1 Returns: AAAA
See Also	SOURce:DATA:TELEcom:BACKground:COMPUtation

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

Description	This query returns the Loop Code name. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Name
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME? <wsp><Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode ID Range is from 1 To 10.
Response Syntax	<Loopcode>
Response(s)	Loopcode: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Loopcode values
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME 1, AAAAA SOUR:DATA:TEL:DS1:LOOP:CODE:NAME? 1 Returns: AAAA
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?	
Description	This query returns the Loop Code. At *RST condition, this value set to CSU. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?
Response Syntax	<Loopcode>
Response(s)	Loopcode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Loop Code: CSU: CSU (10000/100) INBANDLOCODE1: Loop Code 1 INBANDLOCODE2: Loop Code 2 INBANDLOCODE3: Loop Code 3 INBANDLOCODE4: Loop Code 4 INBANDLOCODE5: Loop Code 5 INBANDLOCODE6: Loop Code 6 INBANDLOCODE7: Loop Code 7 INBANDLOCODE8: Loop Code 8 INBANDLOCODE9: Loop Code 9 INBANDLOCODE10: Loop Code 10 NFAC1: NIU FAC1 (1100/1110) NFAC2: NIU FAC2 (11000/11100) NFAC3: NIU FAC3 (100000/100)
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE FAC1 SOUR:DATA:TEL:DS1:LOOP:CODE? Returns: FAC1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELeom:DS[1..n]:LOOP:DOWN

Description	This command sets the Loop-Down code. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Down
Syntax	:SOURce:DATA:TELeom:DS[1..n]:LOOP:DOWN <wsp><Loopcode>, <Loop-Down>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode Type Range for Loopcode is from 1 To 10 Loop-Down: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Loopdown value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Loopcode>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:DOWN 1,1100
See Also	SOURce:DATA:TELeom:MDIO:READ

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN?	
Description	This command returns the Loop-Down code. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Down
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN? <wsp><Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode Type Range for Loopcode is from 1 To 10
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Loopdown values.
Example(s)	SOUR:DATA:TEL:DS1:LOOP:DOWN 1,1100 SOUR:DATA:TEL:DS1:LOOP:DOWN? 1 Returns: 1100
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP

Description	This command set the Loop-Up code. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Up
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP <wsp><Loopcode>, <Loop-Up>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode Type Range for Loopcode is from 1 To 10 Loop-Up: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Loopup value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:UP 1,1100
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELEcom:DS[1..n]:LOOP:UP?	
Description	This query returns the Loop-Up code. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Up
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:LOOP:UP? <wsp><Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Loopcode Type Range for Loopcode is from 1 To 10
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Loopup values.
Example(s)	SOUR:DATA:TEL:DS1:LOOP:UP 1,1100 SOUR:DATA:TEL:DS1:LOOP:UP? 1 Returns: 1100
See Also	SOURce:DATA:TELEcom:MDIO:WRITe

RFC 2544 - Subtests

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy	
Description	This command sets the accuracy measurement for Back-to-Back subtest. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy <wsp> <Accuracy>
Parameter(s)	Accuracy: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects accuracy measurement value in frames. Choices are 1 to 50. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC 10 SOUR:DATA:TEL:ETH:RFC:BCKT:ACC? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ACCuracy?	
Description	This query returns the accuracy measurement for Back-to-Back subtest. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Accuracy
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:ACCuracy?[<wsp><Accuracy>]
Parameter(s)	Accuracy: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current accuracy measurement in frames is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Accuracy>
Response(s)	Accuracy: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the accuracy measurement value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC 10 SOUR:DATA:TEL:ETH:RFC:BCKT:ACC? Returns: 10
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:MTFRames SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:MTFRames?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors

Description	This command sets the number of acceptable errors for Back-to-Back subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors <wsp><Errors>
Parameter(s)	Errors: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of acceptable errors. Choices are 0 to 10. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Accuracy>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR 10 SOUR:DATA:TEL:ETH:RFC:BCKT:AERR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?	
Description	This query returns the number of acceptable errors for Back-to-Back subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?[<wsp><Errors>]
Parameter(s)	Errors: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of acceptable errors for the back-to-back subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Errors>
Response(s)	Errors: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of acceptable errors.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR 10 SOUR:DATA:TEL:ETH:RFC:BCKT:AERR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames

Description	This command sets the burst time for Back-to-Back subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Burst Time
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames[<wsp><Time>]
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the burst time.
Response Syntax	<Errors>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR 00:01 SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR? Returns: 00:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy? SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

:SOURce:DATA:TELecom:ETHeRnet:RFC:BCKTobck:MTFRames? ?	
Description	This query returns the burst time for Back-to-Back subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Burst Time
Syntax	:SOURce:DATA:TELecom:ETHeRnet:RFC:BCKTobck:MTFRames?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the maximum time worth of frames (Burst Time).
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR 00:01 SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR? Returns: 00:01
See Also	SOURce:DATA:TELecom:ETHeRnet:RFC:BCKTobck:ACCuracy? SOURce:DATA:TELecom:ETHeRnet:RFC:BCKTobck:ACCuracy

:SOURce:DATA:TELeom:ETHernet:RFC:BCKTobck:NBURst

Description	This command sets the number of bursts that is generated for Back-to-Back subtest. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Bursts
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:BCKTobck:NBURst <wsp><Nburst>
Parameter(s)	Nburst: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of bursts that is generated for Back-to-Back subtest. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR 10 SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR? Returns: 10
See Also	SOURce:DATA:TELeom:ETHernet:RFC:BCKTobck:TAVerage

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?	
Description	This query returns the number of bursts that is generated for Back-to-Back subtest. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Bursts
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?[<wsp><Nburst>]
Parameter(s)	Nburst: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of bursts generated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Burst>
Response(s)	Burst: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of bursts.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR 10 SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

Description	This command sets the number of times the Back-to-Back subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage <wsp> <Average>
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of trials. Choices are 1 to 100. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Burst>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV 10 SOUR:DATA:TEL:ETH:RFC:BCKT:TAV? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAVerage?	
Description	This query returns the number of times the Back-to-Back subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Trials
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAVerage?[<wsp><Average>]
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of times the back-to-back subtest is generated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of trials.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV 10 SOUR:DATA:TEL:ETH:RFC:BCKT:TAV? Returns: 10
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:TAVerage SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:MAXRate

Description	This command sets the maximum rate for Frame Loss subtest. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:MAXRate <wsp> <Direction>, <Maxrate>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the maximum rate for the Frame Loss test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:MAXRate?	
Description	This query returns the maximum rate for Frame Loss subtest. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Max. Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:FLOSS:MAXRate? <wsp><Direction>,[<Maxrate>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the maximum rate for the Frame Loss test. This parameter is optional. If no token is specified, the current maximum rate for the Frame Loss subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:MAXRate?

Response(s)	Maxrate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum rate for the Frame Loss test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:MAXRate SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAverage	
Description	This command sets the number of times the Frame Loss subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trials
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAverage <wsp> <Average>
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of times the Frame Loss test is generated. Choices are 1 to 50. MAXimum: Biggest supported number MINimum: Smallest supported number DEFault: Default value
Response Syntax	<Maxrate>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10 SOUR:DATA:TEL:ETH:RFC:FLOS:TAV? Returns: 10
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAverage SOURce:DATA:TELEcom:ETHernet:RFC:BCKTobck:TAverage?

:SOURce:DATA:TELeom:ETHernet:RFC:FLOs:TAverage?

Description	This query returns the number of times the Frame Loss subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trials
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:FLOs:TAverage?[<wsp><Average>]
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the number of times the Frame Loss test is generated. Choices are 1 to 50. This parameter is optional. If no token is specified, the current number of times the Frame Loss subtest generated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of times the Frame Loss test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10 SOUR:DATA:TEL:ETH:RFC:FLOS:TAV? Returns: 10
See Also	SOURce:DATA:TELeom:ETHernet:RFC:BCKTobck:TAverage SOURce:DATA:TELeom:ETHernet:RFC:BCKTobck:TAverage?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TGRanularity	
Description	This command sets the granularity for Frame Loss subtest. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Granularity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TGRanularity <wsp><Granularity>
Parameter(s)	Granularity: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the test granularity percentage. Choices are 1 to 10. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10 SOUR:DATA:TEL:ETH:RFC:FLOS:TGR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TGRanularity?	
Description	This query returns the granularity for Frame Loss subtest. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Granularity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TGRanularity?[<wsp><Granularity>]
Parameter(s)	Granularity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current percentage of Frame Loss subtest granularity is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Granularity>
Response(s)	Granularity: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the test granularity percentage.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10 SOUR:DATA:TEL:ETH:RFC:FLOS:TGR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIME

:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIME	
Description	This command sets the trial duration for Frame loss subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIME <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the trial duration for the Frame Loss test.
Response Syntax	<Granularity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM 30:00 SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM? Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIME?

Description	This query returns the trial duration for the Frame Loss subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIME?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the test trial duration value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM 30:00 SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM? Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME?

:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode	
Description	This command sets the measurement mode for Latency subtest. At *RST condition, the value is set to Round Trip. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode <wsp> <Latency Measurment Mode>
Parameter(s)	Latency Measurment Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Latency measurement mode. ONEWay: One Way. RTLATENCY: Round Trip Latency.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:GLOB:LMM RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?

:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

Description	This query returns the measurement mode for Latency subtest. At *RST condition, the value is Round Trip. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?
Response Syntax	<Latency measurement mode>
Response(s)	Latency measurement mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Latency measurement mode. ONEWAY, One way is selected as latency mode. RTLATENCY, Round Trip Latency is selected as latency mode.
Example(s)	SOUR:DATA:TEL:ETH:RFC:GLOB:LMM RTLATENCY SOUR:DATA:TEL:ETH:RFC:GLOB:LMM? Returns: RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPItest	
Description	This command enables/disables the Copy From Throughput test to get values from the throughput test results. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Copy From Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPItest <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the copy from the throughput test. OFF, disables the copy from the throughput test.
Response Syntax	<Latency measurement mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:COPI ON SOUR:DATA:TEL:ETH:RFC:LAT:COPI? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTime SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTime?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPItest?

Description	This query returns the on/off status of the Copy From Throughput test setting. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Copy From Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPItest?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of copy from the throughput test. 0, returns the status of copy from the throughput test as OFF. 1, returns the status of copy from the throughput test as ON.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:COPI ON SOUR:DATA:TEL:ETH:RFC:LAT:COPI? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME?

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:MARGin	
Description	This command sets the maximum rate of each frame size for Latency subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Margin
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:MARGin <wsp><Margin>
Parameter(s)	Margin: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the maximum rate for each frame size. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default value
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MARG 1 SOUR:DATA:TEL:ETH:RFC:LAT:MARG?
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAverage SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAverage?

:SOURce:DATA:TELeom:ETHernet:RFC:LATency:MARGin?

Description	This query returns the maximum rate of each frame size for Latency subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Margin
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:LATency:MARGin?[<wsp><Margin>]
Parameter(s)	Margin: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the maximum rate for each frame size. This parameter is optional. If no token is specified, the current maximum rate for each frame size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Percenatge>
Response(s)	Percenatge: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum rate for each frame size.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MARG?
See Also	SOURce:DATA:TELeom:ETHernet:RFC:FLOs:TAVerage SOURce:DATA:TELeom:ETHernet:RFC:FLOs:TAVerage?

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TAVerage	
Description	This command sets the number of times the Latency subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trials
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TAVerage <wsp> <Average>
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of times the latency test is generated. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Percenatge>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10 SOUR:DATA:TEL:ETH:RFC:LAT:TAV? Returns: 10
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAVerage SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

Description	This query returns the number of times the Latency subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?[<wsp> <Average>]
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the number of times the latency test is generated. This parameter is optional. If no token is specified, the current number of times the latency subtest generated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of times the latency test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10 SOUR:DATA:TEL:ETH:RFC:LAT:TAV? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TAVerage SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TAVerage?

:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TTIMe	
Description	This command sets the trial duration for Latency subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trial Duration
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:LATency:TTIMe <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the trial duration for the latency test.
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM 01:00 SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:FLOs:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

Description	This query returns the trial duration value for the Latency subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the trial duration for the latency test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM 01:00 SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOs:TTIMe

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCura cy	
Description	This command sets the accuracy value for the throughput subtest. *RST values are 1.0 for Gbit/s, 1000 for Mbit/s and 1.0 for %. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy <wsp> <Accuracy>
Parameter(s)	Accuracy: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the throughput accuracy value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ACC 10.00 SOUR:DATA:TEL:ETH:RFC:THR:ACC? Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?	
Description	This query returns the accuracy value for the throughput subtest. *RST values are 1.0 for Gbit/s, 1000 for Mbit/s and 1.0 for %. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?[<wsp><Accuracy>]
Parameter(s)	Accuracy: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current accuracy value for the throughput subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Accuracy>
Response(s)	Accuracy: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the accuracy measurement value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ACC 10.00 SOUR:DATA:TEL:ETH:RFC:THR:ACC? Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors	
Description	This command sets the number of acceptable errors for the throughput subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors <wsp><Errors>
Parameter(s)	Errors: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of acceptable throughput errors. Choices are 0 to 10. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Accuracy>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:AERR 10 SOUR:DATA:TEL:ETH:RFC:THR:AERR? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy

:SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:AERRors?

Description	This query returns the number of acceptable errors for the throughput subtest. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Acceptable Errors
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:AERRors?[<wsp><Errors>]
Parameter(s)	Errors: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of acceptable errors for the throughput subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Errors>
Response(s)	Errors: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of acceptable errors for the throughput subtest.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:AERR 10 SOUR:DATA:TEL:ETH:RFC:THR:AERR? Returns: 10
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:THRoughput:ACCuracy?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate	
Description	This command sets the maximum throughput rate for the throughput subtest. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate <wsp><Direction>,<Maxrate>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects maximum throughput rate. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Errors>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:MAXR TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:THR:MAXR? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce:DATA:TELecom:ETHeRnet:RFC:THRoughput:MAXRate?

Description	This query returns the maximum throughput rate for the throughput subtest. At *RST condition, this value is set to 100.0. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHeRnet:RFC:THRoughput:MAXRate? <wsp><Direction>,[<Maxrate>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. BIDirectional: Bidirectional Maxrate: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current throughput rate for the throughput subtest is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Response(s)	Maxrate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum throughput rate for the test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:MAXR TX2RX,10.00 SOUR:DATA:TEL:ETH:RFC:THR:MAXR? TX2RX Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

Description	This command sets the number of times the throughput subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage <wsp> <Average>
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of throughput trials. Choices are 1 to 50. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Maxrate>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TAV 10 SOUR:DATA:TEL:ETH:RFC:THR:TAV? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?	
Description	This query returns the number of times the throughput subtest is generated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?[<wsp><Average>]
Parameter(s)	Average: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of times the throughput subtest generated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of times the throughput test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TAV 10 SOUR:DATA:TEL:ETH:RFC:THR:TAV? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME

Description	This command sets the trial duration for the throughput subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIME <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the throughput test time value.
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TTIM 30:00 SOUR:DATA:TEL:ETH:RFC:THR:TTIM? Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?	
Description	This query returns the trial duration for the throughput subtest. At *RST condition, this value is set to 00:01. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the trial duration for the test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TTIM 30:00 SOUR:DATA:TEL:ETH:RFC:THR:TTIM? Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

Description	This command sets the number of times the throughput result should be validated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Validations
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations <wsp><Validations>
Parameter(s)	Validations: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the number of throughput validations. Choices are 1 to 50. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:VAL 10 SOUR:DATA:TEL:ETH:RFC:THR:VAL? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?	
Description	This query returns the number of times the throughput result should be validated. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Validations
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?[<wsp><Validations>]
Parameter(s)	Validations: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of times the result should be validated is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Validations>
Response(s)	Validations: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of times the result should be validated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:VAL 10 SOUR:DATA:TEL:ETH:RFC:THR:VAL? Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

TCP Throughput

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs

Description	This command sets the Type of Service/Differentiated Services (TOS/DS) value. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > IP TOS/DS
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs <wsp><Tosds>
Parameter(s)	Tosds: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Set the TOSDS value from #H00 to #HFF.
Response Syntax	<Frame Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD #HDD SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD? Returns: 221
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:INTSize?

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs? ?	
Description	This query returns the Type of Service/Differentiated Services (TOS/DS) value. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?
Response Syntax	<TOSDS>
Response(s)	TOSDS: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TOSDS value.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD #HDD SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD? Returns: 221
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

:SOURce:DATA:TELeom:ETHernet:TCP:CONNection:LIP

Description	This command set accept connection from IP (TCP Mode - Remote) At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Accept connection From IP
Syntax	:SOURce:DATA:TELeom:ETHernet:TCP:CONNection:LIP <wsp> <Adress>
Parameter(s)	Adress: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the Local IP Address.
Response Syntax	<TOSDS>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE REMOTE SOUR:DATA:TEL:ETH:TCP:CONN:LIP 0.0.0.0 SOUR:DATA:TEL:ETH:TCP:CONN:LIP? Returns: 0.0.0.0
See Also	SOURce:DATA:TELeom:ETHernet:TCP:CONNection:PORT?

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:LIP?	
Description	This query returns the accept connection from IP (TCP Mode - Remote) At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Accept connection From IP
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:LIP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local IP Address
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE REMOTE SOUR:DATA:TEL:ETH:TCP:CONN:LIP 0.0.0.0 SOUR:DATA:TEL:ETH:TCP:CONN:LIP? Returns: 0.0.0.0
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:PORT

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT

Description	This command set the TCP Port At *RST condition, this value is set to 50201. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT <wsp><TCP Port>
Parameter(s)	TCP Port: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the TCP Port. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:PORT 26 SOUR:DATA:TEL:ETH:TCP:CONN:PORT? Returns: 26
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

:SOURce:DATA:TELeom:ETHernet:TCP:CONNection:PORT?	
Description	This query returns the TCP Port At *RST condition, this value is set to 50201. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > TCP Port
Syntax	:SOURce:DATA:TELeom:ETHernet:TCP:CONNection:PORT?[<wsp><TCP Port>]
Parameter(s)	TCP Port: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP Port is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<TCP Port>
Response(s)	TCP Port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TCP Port
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:PORT 26 SOUR:DATA:TEL:ETH:TCP:CONN:PORT? Returns: 26
See Also	SOURce:DATA:TELeom:ETHernet:TCP:CONNection:LIP

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP

Description	This command set the Remote IP Address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Remote IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP <wsp><Adress>
Parameter(s)	Adress: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the Remote IP Address.
Response Syntax	<TCP Port>
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:RIP 0.0.0.0 SOUR:DATA:TEL:ETH:TCP:CONN:RIP? Returns: 0.0.0.0
See Also	SOURce:DATA:TELecom:ETHernet:TCP:MODE?

:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:RIP?	
Description	This query returns the Remote IP Address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Remote IP Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:RIP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Remote IP Address.
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:RIP 0.0.0.0 SOUR:DATA:TEL:ETH:TCP:CONN:RIP? Returns: 0.0.0.0
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:MODE

:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold

Description	This command sets the Throughput Threshold (%) At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Throughput Threshold (%)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold <wsp><Throughput Threshold>
Parameter(s)	Throughput Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Throughput Threshold(%). MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:INJ:THR 50 SOUR:DATA:TEL:ETH:TCP:INJ:THR? Returns: 50
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?

:SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold?	
Description	This query returns the Throughput Threshold (%) At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Throughput Threshold (%)
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold?[<wsp><Throughput Threshold>]
Parameter(s)	Throughput Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the currentThroughput Threshold(%) is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Throughput Threshold>
Response(s)	Throughput Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Threshold(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:INJ:THR 50 SOUR:DATA:TEL:ETH:TCP:INJ:THR? Returns: 51
See Also	FETCh:DATA:TELEcom:ETHernet:TCP:STAT:THRoughput:MAXimum:VERDict?

:SOURce:DATA:TELecom:ETHerneT:TCP:MODE

Description	This command set the TCP Mode. At *RST condition, this value is set to Local. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Mode
Syntax	:SOURce:DATA:TELecom:ETHerneT:TCP:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the TCP mode. LOCal REMOte
Response Syntax	<Throughput Threshold>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:MODE? Returns: LOCAL
See Also	SOURce:DATA:TELecom:ETHerneT:TCP:CONNection:RIP?

:SOURce:DATA:TELeom:ETHernet:TCP:MODE?	
Description	This query returns the TCP Mode. At *RST condition, this value is set to Local. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Mode
Syntax	:SOURce:DATA:TELeom:ETHernet:TCP:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the TCP Mode. LOCAL REMOTE
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:MODE? Returns: LOCAL
See Also	SOURce:DATA:TELeom:ETHernet:TCP:CONNection:RIP

:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:INTSize

Description	This command sets the Initial Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Initial Window Size (Kbytes)
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:INTSize <wsp><Initial Window Size>
Parameter(s)	Initial Window Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Initial Window Size in Kbytes. Choices are 2 to 65536. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:INTS 20 SOUR:DATA:TEL:ETH:TCP:THR:INTS? Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs?

:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:INTSize?

Description	This query returns the Initial Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Initial Window Size (Kbytes)
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:INTSize?[<wsp><Initial Window Size>]
Parameter(s)	Initial Window Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the Initial Window Size in Kbytes. Choices are 2 to 65536. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Initial Window Size (Kbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:INTS 20 SOUR:DATA:TEL:ETH:TCP:THR:INTS? Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:CONNection:IP:TOSDs?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize	
Description	This command sets the Maximum Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Maximum Window Size (Mbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize <wsp><Maximum Window Size>
Parameter(s)	Maximum Window Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Maximum Window Size in Mbytes. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:MAXS 20.20 SOUR:DATA:TEL:ETH:TCP:THR:MAXS? Returns: 20.20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?	
Description	This query returns the Maximum Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Maximum Window Size (Mbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?[<wsp><Maximum Window Size>]
Parameter(s)	Maximum Window Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Maximum Window Size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Window Size(Mbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:MAXS 20.20 SOUR:DATA:TEL:ETH:TCP:THR:MAXS? Returns: 20.20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

Description	This command sets the Minimum Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Minimum Window Size (Kbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize <wsp><Minimum Window Size>
Parameter(s)	Minimum Window Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Minimum Window Size in Kbytes. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:MINS 20 SOUR:DATA:TEL:ETH:TCP:THR:MINS? Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:MINSize?	
Description	This query returns the Minimum Window Size. At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Minimum Window Size (Kbytes)
Syntax	:SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:MINSize?[<wsp><Minimum Window Size>]
Parameter(s)	Minimum Window Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Minimum Window Size value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Minimum Window Size(Kbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:THR:MINS 20 SOUR:DATA:TEL:ETH:TCP:THR:MINS? Returns: 20
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:THRoughput:MAXSize

:SOURce:DATA:TELecom:RESTore:DEFault

Description	This command restores the values for test to default values for test applications: TCP Throughput, Carrier Ethernet OAM, 1588 PTP, SyncE, CPRI/OBSAI and FlexE BERT.
Syntax	:SOURce:DATA:TELecom:RESTore:DEFault
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:REST:DEF
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault SOURce:DATA:TELecom:ETHernet:ESAM:REStore:DEFault SOURce:DATA:TELecom:ETHernet:RFC:REStore:DEFault SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:REStore:DEFault

Cable Test

:SOURce:DATA:TELEcom:CABLeTest:LENGth:THReshold	
Description	This command sets the Length Threshold for Cable test. At *RST condition, this value is set to 100.0 Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Length Threshold (m)
Syntax	:SOURce:DATA:TELEcom:CABLeTest:LENGth:THReshold <wsp> <Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Length Threshold for Cable test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CABL:LENG:THReshold 120 SOUR:DATA:TEL:CABL:LENG:THReshold? Returns: 120
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELEcom:CABLeTest:LENGth:THReshold?

Description	This query returns the Length Threshold for Cable test. At *RST condition, this value is set to 100.0 Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Length Threshold (m)
Syntax	:SOURce:DATA:TELEcom:CABLeTest:LENGth:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current no defect time without any defects is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Length>
Response(s)	Length: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the length threshuld value for Cabletest.
Example(s)	SOUR:DATA:TEL:CABL:LENG:THReshold 120 SOUR:DATA:TEL:CABL:LENG:THReshold? Returns: 120
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELEcom:CABLetest:PROPdelay:THReshold	
Description	This command sets the Prop. Delay Threshold for Cable test. At *RST condition, this value is set to 556 ns Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Prop. Delay Threshold(ns)
Syntax	:SOURce:DATA:TELEcom:CABLetest:PROPdelay:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Prop. Delay Value for Cable test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Length>
Example(s)	SOUR:DATA:TEL:CABL:PROP:THR 10 SOUR:DATA:TEL:CABL:PROP:THR? Returns: 10
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:CABLeTest:PROPdelay:THReshold?

Description	This query returns the Prop. Delay Threshold for Cable test. At *RST condition, this value is set to 556 ns Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Prop. Delay Threshold(ns)
Syntax	:SOURce:DATA:TELecom:CABLeTest:PROPdelay:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Prop. Delay Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Delay>
Response(s)	Delay: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Prop. Delay for Cable test. MAXimum is used to retrieve the instruments greatest supported value for Prop. Delay MINimum is used to retrieve the instruments smallest supported value for Prop. Delay
Example(s)	SOUR:DATA:TEL:CABL:PROP:THR 10 SOUR:DATA:TEL:CABL:PROP:THR? Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELeom:CABLeTest:REStore:THReshold:DEFault	
Description	This command resets the Cable Test to factory default settings. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > Cable Test > Restore Cable Test Defaults
Syntax	:SOURce:DATA:TELeom:CABLeTest:REStore:THReshold:DEFault
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:CABL:REStore:THReshold:DEFault
See Also	FETCh:DATA:TELeom:SDHS:ADV:APS:K[1..n]:BREQ?

:SOURce:DATA:TELecom:CABLeTest:SKEW:THReshold

Description	This command sets the Delay Skew Threshold for Cable test. At *RST condition, this value is device dependent Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Delay Skew Threshold (ns)
Syntax	:SOURce:DATA:TELecom:CABLeTest:SKEW:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Skew Threshold for Cable test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:CABL:SKEW:THR 10 SOUR:DATA:TEL:CABL:SKEW:THR? Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELEcom:CABLeTest:SKEW:THReshold?	
Description	This query returns the Delay Skew Threshold for Cable test. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Delay Skew Threshold (ns)
Syntax	:SOURce:DATA:TELEcom:CABLeTest:SKEW:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Delay Skew Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Skew>
Response(s)	Skew: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Skew Threshold value for Cable test. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Example(s)	SOUR:DATA:TEL:CABL:SKEW:THR 10 SOUR:DATA:TEL:CABL:SKEW:THR? Returns: 10
See Also	SOURce:DATA:TELEcom:OTN:ODU[1..n]:FTFL:IDentifier

:SOURce:DATA:TELecom:CABLeTest:WIREstandard

Description	This command sets the wiring standards for Cable test. At *RST condition, this value is set to T568A. Navigation Path: Setup > Test Configurator > Cable Test > Global Options - Wiring Standards
Syntax	:SOURce:DATA:TELecom:CABLeTest:WIREstandard <wsp><WIREstandard>
Parameter(s)	WIREstandard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Wire Standard for the Cable test. T568A T568B
Response Syntax	<Skew>
Example(s)	SOUR:DATA:TEL:CABL:WIR T568A SOUR:DATA:TEL:CABL:WIR? Returns: T568A
See Also	SOUR:DATA:TEL:CABL:REStore:THReshold:DEFault

:SOURce:DATA:TELEcom:CABLeTest:WIRestandard?

Description	This query returns the wiring standards for Cable test. At *RST condition, this value is set to T568A. Navigation Path: Setup > Test Configurator > Cable Test > Global Options - Wiring Standards
Syntax	:SOURce:DATA:TELEcom:CABLeTest:WIRestandard?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Wire Standard for the Cable test. T568A, T568A is return as Wire Standard. T568B, T568B is return as Wire Standard.
Example(s)	SOUR:DATA:TEL:CABL:WIR T568A SOUR:DATA:TEL:CABL:WIR? Returns: T568A
See Also	SOURce:DATA:TELEcom:OTN:FRAMing?

IPv6 Address Configuration

:FETCh:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVers ion:ADDResS:STATus?	
Description	This query returns the port Default Gateway IPv6 address status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway
Syntax	:FETCh:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDResS:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 address status. UNDEFINED, Undefined is retrieved. CHECKING, Checking is retrieved. UNREACHABLE, Unreachable is retrieved. REACHABLE, Reachable is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR:STAT?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes:STATus?	
Description	This query returns the port Global IPv6 address status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR:STAT?
See Also	FETCH:DATA:TELEcom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDResS:STATus?

Description	This query returns the port Link-Local IPv6 address status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDResS:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:LOC:IPV:ADDR:STAT?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:DGATeway:IPVersi on:ADDResS:STATus?	
Description	This query returns the Default Gateway IPv6 address Status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DGATeway:IPVersion:ADDResS:STATus? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 address status. UNDEFINED, Undefined is retrieved. CHECKING, Checking is retrieved. UNREACHABLE, Unreachable is retrieved. REACHABLE, Reachable is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:DGAT:IPV:ADDR:STAT? 1
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:GLOBal:IPVersion:ADDReSS:STATus?	
Description	This query returns the Global IPv6 address status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:GLOBal:IPVersion:ADDReSS:STATus? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:GLOB:IPV:ADDR:STAT? 1
See Also	FETCH:DATA:TELEcom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:STReam:LOCal:IPVersion:ADDRESS:STATus?	
Description	This query returns the Link-Local IPv6 address status. At *RST condition, this value is device dependent. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LOCal:IPVersion:ADDRESS:STATus? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 address status. TENTATIVE, Tentative is retrieved. GENERATING, Generating is retrieved. SUCCESSFUL, Successful is retrieved. PREFERRED, Preferred is retrieved. FAILED, Failed is retrieved. CHECKING, Checking is retrieved. NDUPLICATE, No Duplication is retrieved. DDETECTED, Duplication Detected is retrieved. UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:LOC:IPV:ADDR:STAT? 1
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:STATus?

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVe
rsion:ADDReSS

Description	This command sets the port Default Gateway IPv6 address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDReSS <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default Gateway IPv6 Address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE STATIC SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR? Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:ADDReSS SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHeRnet:NETWork:DGATeway:IPVe rsion:ADDReSS?	
Description	This query returns the port Default Gateway IPv6 address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHeRnet:NETWork:DGATeway:IPVersion:ADDReSS?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default Gateway IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE STATIC SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR? Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHeRnet:NETW:DGATeway:IPV:MODE?

:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVe
rsion:MODE

Description	This command selects the port Default Gateway IPv6 Mode. At *RST condition, this value is set to AUTOamtic. Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Default Gateway IPv6 Address mode. AUTomatic: Automatic STATic: Static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE AUT SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE? Returns: AUTOMATIC
See Also	SOURce:DATA:TELEcom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVe rsion:MODE?	
Description	This query returns the port Default Gateway IPv6 Mode. At *RST condition, this value is set to AUTOamtic. Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 Address Mode. AUTOMATIC, Automatic is selected as default gateway address mode. MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE AUT SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE? Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:ADDRes? SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:ADDRESS

Description	This command sets the port Global IPv6 Address. At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:1111. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:ADDRESS <wsp> <address>
Parameter(s)	address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Sets the Global IPv6 Address
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR 2001:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR? Returns: 2001:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELeom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes?	
Description	This query returns the port Global IPv6 Address. At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000.1111. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR 2001:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR? Returns: 2001:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled

Description	This command enables/disables the port Interface ID Coupled of the Global IPv6 address. At *RST condition, this value is set to OFF. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Interface ID of the Global IPv6 address. ON,Enables Interface ID Coupled OFF,Disables Interface ID Coupled
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC? Returns: 0
See Also	SOURce:DATA:TELeom:ETHernet:NETW:GLOB:IPV:ADDRes? SOURce:DATA:TELeom:ETHernet:NETW:GLOB:IPV:MODE SOURce:DATA:TELeom:ETHernet:NETW:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

Description	This query returns the status of the port Interface ID Coupled of the Global IPv6 address. At *RST condition, this value is set to OFF. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC? Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:ADDRes SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:IICoupled

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersio

n:MODE

Description	This command selects the port Global IPv6 Mode. At *RST condition, this value is set to NONE. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Global IPv6 Mode. SAUTo,sets mode to stateless Auto STATic,Sets mode to static NONE, Sets mode to None
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE? Returns: STATIC
See Also	SOURce:DATA:TELeom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersio n:MODE?	
Description	This query returns the port Global IPv6 Mode. At *RST condition, this value is set to NONE. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 mode. NONE, No Global IPv6 mode is selected. STATIC, Static is selected as Global IPv6 mode. SAUTo, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE? Returns: STATIC
See Also	SOURce:DATA:TELeom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:PMASk

Description	This command sets the port Global IPv6 Address Prefix Mask. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:PMASK <wsp><Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS? Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELeom:ETHernet:NETW:LOCal:IPV:MODE?

:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?	
Description	This query returns the port Global IPv6 Address Prefix Mask. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELeom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS? Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELeom:ETHernet:NETW:LOCal:IPV:MODE

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE

Description	This command selects the port Link-Local IPv6 Mode. At *RST condition, this value is set to STATic. Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Local IPv6 Mode. SAUTo,sets mode to stateless Auto STATic,Sets mode to static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE STAT
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE?	
Description	This query returns the port Link-Local IPv6 Mode. At *RST condition, this value is set to STATic. Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 mode. STATic, Static is selected as Link-Local IPv6 mode. SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE STAT SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE? Returns: STATic
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:SUBNet:MASK?

**:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersio
n:ADDRes**

Description	This command sets the IPv6 Default Gateway Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:ADDRes <wsp> <Stream> , <Address>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default Gateway IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR? 1 Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPV:ADDRes SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:ADDRes?	
Description	This query returns the IPv6 Default Gateway Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPVersion:ADDRes? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default Gateway IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR? 1 Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:DGATeway:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersio

n:MODE

Description	This command selects the Default Gateway IPv6 Address Mode. At *RST condition, this value is set to AUTOamtic. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE <wsp><Stream>,<Mode>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Mode: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Default Gateway IPv6 Address mode. AUTomatic: Automatic STATic: Static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, AUT SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE? 1 Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersio n:MODE?	
Description	This query returns the Default Gateway IPv6 Address Mode. At *RST condition, this value is set to AUTOamtic. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 Address Mode. AUTOMATIC, Automatic is selected as default gateway address mode. MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, AUT SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE? 1 Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRes? SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDRESS	
Description	This command sets the Global IPv6 Address. At *RST condition, this value is set to 2001:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDRESS <wsp><Stream>, <Address>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Global IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR 1, 2001:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR? 1 Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion?

:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDRESS?	
Description	This query returns the Global IPv6 Address. At *RST condition, this value is set to 2001:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPVersion:ADDRESS? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR 1, 2001:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR? 1 Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled	
Description	This command enables/disables the Interface ID Coupled of the Global IPv6 address. At *RST condition, this value is set to OFF. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled <wsp><Stream>, <Set>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the Interface ID of the Global IPv6 address. OFF, disables the Interface ID of the Global IPv6 address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC? 1 Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled?	
Description	This query returns the status of Interface ID Coupled of the Global IPv6 address. At *RST condition, this value is set to OFF. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC? 1 Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:ADDRes SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:II Coupled

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE

Description	This command selects the Global IPv6 Mode. At *RST condition, this value is set to NONE. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE <wsp> <Stream>, <Mode>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Mode: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Global IPv6 mode. NONE, None STATic: Static SAUTo: Stateless Auto.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE? 1 Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDress? SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE?	
Description	This query returns the Global IPv6 Mode. At *RST condition, this value is set to NONE. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 mode. NONE, No Global IPv6 mode is selected. STATIC, Static is selected as Global IPv6 mode. SAUTO, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE? 1 Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDress SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASK	
Description	This command sets the Global IPv6 Address Prefix Mask. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASK <wsp><Stream>, <Prefix Mask>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Prefix Mask: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS 1, FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS? 1 Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASK?	
Description	This query returns the Global IPv6 Address Prefix Mask. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASK? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS 1, FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000 SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS? 1 Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:ADDRess	
Description	This command sets the Link-Local IPv6 Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:ADDRess <wsp><Stream>,<Address>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Link-Local IPv6 Address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:FFFF SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR? 1 Returns: FE80:0000:0000:0000:0000:0000:0000:FFFF
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:ILlCoupled

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:ADDRess?	
Description	This query returns the Link-Local IPv6 Address. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:ADDRess? <wsp> <Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Link-Local IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:FFFF SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR? 1 Returns: FE80:0000:0000:0000:0000:0000:0000:FFFF
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:ADDRess

:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:MODE

Description	This command selects the Link-Local IPv6 Mode. At *RST condition, this value is set to STATIC. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:PORT:LOCal:IPVersion:MODE <wsp><Stream>, <Mode>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16. Mode: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link-Local IPv6 mode. STATic: Static SAUTo: Stateless Auto.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE? 1 Returns: STAT
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:GLOBal:IPV:PMASK?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE?	
Description	This query returns the Link-Local IPv6 Mode. At *RST condition, this value is set to STATIC. Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. EtherSAM - Selects the service from 1 to 10. Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 mode. STATic, Static is selected as Link-Local IPv6 mode. SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE? 1 Returns: STAT
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASK

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes

Description	This command sets the Default Gateway IPv6 Address for Loopback Tool test. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default Gateway IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDRes

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes?	
Description	This query returns the Default Gateway IPv6 Address for Loopback Tool test. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Default Gateway IPv6 Address.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes FE80:0000:0000:0000:0000:0000:0000 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRes? Returns: FE80:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:ADDRes?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE

Description	This command selects the Default Gateway IPv6 Address Mode for Loopback Tool test. At *RST condition, this value is set to AUTOamtic. Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Default Gateway IPv6 Address mode. AUTomatic STATic
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE AUTOMATIC
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?	
Description	This query returns the Default Gateway IPv6 Address Mode for Loopback Tool test. At *RST condition, this value is set to AUTOamtic. Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Default Gateway IPv6 Address Mode. AUTOMATIC, Automatic is selected as default gateway address mode. MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE AUTOMATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE? Returns: AUTOMATIC
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes

Description	This command sets the Global IPv6 Address for Loopback Tool test. At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000.1111. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Global IPv6 Address
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes 2001:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes?	
Description	This query returns the Global IPv6 Address for Loopback Tool test. At *RST condition, this value is set to 2001:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes 2001:0000:0000:0000:0000:0000:0000:0000 SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRes? Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRes?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled

Description	This command enables/disables the Interface ID Coupled of the Global IPv6 address for Loopback Tool test. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled<wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Interface ID of the Global IPv6 address. ON,Enables Interface ID Coupled OFF,Disables Interface ID Coupled
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled OFF
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?	
Description	This query returns the status of Interface ID Coupled of the Global IPv6 address for Loopback Tool test. At *RST condition, this value is set to OFF. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled OFF SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE

Description	This command selects the Global IPv6 Mode for Loopback Tool test. At *RST condition, this value is set to NONE. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Global IPv6 Mode. SAUTO, sets mode to stateless Auto STATic, sets mode to static NONE, sets mode to none
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?	
Description	This query returns the Global IPv6 Mode for Loopback Tool test. At *RST condition, this value is set to NONE. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Global IPv6 mode. NONE, No Global IPv6 mode is selected. STATIC, Static is selected as Global IPv6 mode. SAUTO, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE? Returns: STATIC
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK

Description	This command sets the Global IPv6 Address Prefix Mask for Loopback Tool test. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:GLOBal:IPVersion:PMASK

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK?	
Description	This query returns the Global IPv6 Address Prefix Mask for Loopback Tool test. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000 SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASK? Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASK?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes	
Description	This command sets the Link-Local IPv6 Address for Loopback Tool test. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Sets the Local IPv6 Address
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion IPV6 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDRes

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes?	
Description	This query returns the Link-Local IPv6 Address for Loopback Tool test. At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000. Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes?
Response Syntax	<address>
Response(s)	address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Link-Local IPv6 Address.
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:IPVersion IPV6 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes FE80:0000:0000:0000:0000:0000:0000:1111 SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRes? Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDRes?

:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE	
Description	This command selects the Link-Local IPv6 Mode for Loopback Tool test. At *RST condition, this value is set to STATic. Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Local IPv6 Mode. SAUTO, sets mode to stateless Auto STATic, sets mode to static
Response Syntax	<address>
Example(s)	SOURce:DATA:TELEcom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE SAUTO
See Also	SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:MODE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE?	
Description	This query returns the Link-Local IPv6 Mode for Loopback Tool test. At *RST condition, this value is set to STATic. Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Link-Local IPv6 mode. STATic, Static is selected as Link-Local IPv6 mode. SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE SAUTO SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE? Returns: SAUTO
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE?

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELEcom:DSNPdh:POSition

Description	This command sets the DSn/PDH mapping position for Through topology. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SENSe:DATA:TELEcom:DSNPdh:POSition <wsp> <Positionid>, <Position1>, <Position2>, <Position3>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. DSEPOStion: DSn/PDH Position1: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the mapping postion values. Position2: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position values. Position3: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position values.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:DSNPdh:POS DSEPOSITION,1, 1,0
See Also	SOURce:DATA:TELEcom:HOP:TYPE

:SENSe:DATA:TELecom:DSNPdh:POSition?	
Description	This query returns the DSn/PDH mapping position for Through topology. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SENSe:DATA:TELecom:DSNPdh:POSition? <wsp> <Positionid>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. DSEPOSition: DSn/PDH
Response Syntax	<Position>
Response(s)	Position: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mapping positions.
Example(s)	SENS:DATA:TEL:DSNPdh:POS DSEPOSITION,1, 1,0 SENS:DATA:TEL:DSNPdh:POS? DSEPOSITION Returns: (1,1,0)
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SENSe:DATA:TELeom:DS[1..n]:AUTO:FORCe:RELease

Description	This command force release of loopback. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Force Release
Syntax	:SENSe:DATA:TELeom:DS[1..n]:AUTO:FORCe:RELease
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:DS1:AUTO:FORC:REL
See Also	SOURce:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE	
Description	This command sets auto-response Type. At *RST condition, this value is set to In-Band. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Auto-Response mode. INband, Sets In-Band auto-response type. OUTband, Sets Out-of-band auto-response type.
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:DS1:AUTO:TYPE IN
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELeom:DS[1..n]:AUTO:TYPE?

Description	This query returns the auto-response Type. At *RST condition, this value is set to In-Band. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELeom:DS[1..n]:AUTO:TYPE?
Response Syntax	<TYPE>
Response(s)	TYPE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of auto-response mode. INBAND, In-Band type is selected. OUTBAND, Out-of-band type is selected.
Example(s)	SENS:DATA:TEL:DS1:AUTO:TYPE OUT SENS:DATA:TEL:DS1:AUTO:TYPE? Returns: OUTBAND
See Also	SOURce:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DS[1..n]:ENABled	
Description	This command enables/disables the activation of Digital Signal-level 0 (DS0)/64K testing for Through topology. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SENSe:DATA:TELecom:DS[1..n]:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<TYPE>
Example(s)	SENS:DATA:TEL:DS:ENAB ON
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SENSe:DATA:TELecom:DS[1..n]:ENABled?

Description	This query returns the status of Digital Signal-level 0 (DS0)/64K testing for Through topology. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SENSe:DATA:TELecom:DS[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:DS:ENAB ON SENS:DATA:TEL:DS:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:DS:ENABled

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE	
Description	This command selects the RX Loop Code for NI/CSU Emulation. At *RST condition, this value set to CSU. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE <wsp><Loopcode>
Parameter(s)	Loopcode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Loop Code. CSU: CSU (10000/100) INBANDLOCODE1: Loop Code 1 INBANDLOCODE2: Loop Code 2 INBANDLOCODE3: Loop Code 3 INBANDLOCODE4: Loop Code 4 INBANDLOCODE5: Loop Code 5 INBANDLOCODE6: Loop Code 6 INBANDLOCODE7: Loop Code 7 INBANDLOCODE8: Loop Code 8 INBANDLOCODE9: Loop Code 9 INBANDLOCODE10: Loop Code 10 NFAC1: NIU FAC1 (1100/1110) NFAC2: NIU FAC2 (11000/11100) NFAC3: NIU FAC3 (100000/100)
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:DS:LOOP:CODE NFAC1
See Also	SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE?

:SENSe:DATA:TELeom:DS[1..n]:LOOP:CODE?

Description	This query returns the RX Loop Code for NI/CSU Emulation. At *RST condition, this value set to CSU. Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SENSe:DATA:TELeom:DS[1..n]:LOOP:CODE?
Response Syntax	<Loopcode>
Response(s)	Loopcode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Loop Code: CSU: CSU (10000/100) INBANDLOCODE1: Loop Code 1 INBANDLOCODE2: Loop Code 2 INBANDLOCODE3: Loop Code 3 INBANDLOCODE4: Loop Code 4 INBANDLOCODE5: Loop Code 5 INBANDLOCODE6: Loop Code 6 INBANDLOCODE7: Loop Code 7 INBANDLOCODE8: Loop Code 8 INBANDLOCODE9: Loop Code 9 INBANDLOCODE10: Loop Code 10 NFAC1: NIU FAC1 (1100/1110) NFAC2: NIU FAC2 (11000/11100) NFAC3: NIU FAC3 (100000/100)
Example(s)	SENS:DATA:TEL:DS:LOOP:CODE NFAC1 SENS:DATA:TEL:DS:LOOP:CODE? Returns: NFAC1

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELEcom:DS[1..n]:MANual:ACTivate	
Description	This command enables/disables manual mode. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Activate
Syntax	:SENSe:DATA:TELEcom:DS[1..n]:MANual:ACTivate <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the activation of manual mode. ON, activated manual mode. OFF,deactivated manual mode.
Response Syntax	<Loopcode>
Example(s)	SENS:DATA:TEL:DS1:MAN:ACT ON
See Also	SOURce:DATA:TELEcom:PDH:E:ENABled?

:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate?

Description	This query returns the on/off status of manual mode. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Activate
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of manual mode. 1, manual mode is activated. 0,manual mode is deactivated.
Example(s)	SENS:DATA:TEL:DS1:MAN:ACT ON SENS:DATA:TEL:DS1:MAN:ACT? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE	
Description	This command sets manual Type. At *RST condition, this value is set to Auto-Response. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of manual mode. NONE, Sets None manual type. LINE, Sets Line manual type. PAYLOAD, Sets Payload manual type.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:DS1:MAN:TYPE LINE
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELeom:DS[1..n]:MANual:TYPE?

Description	This query returns the manual Type. At *RST condition, this value is set to Auto-Response. Navigation Path: Setup > NI/CSU > Test Configurator > Setup > Signal Configuration > Mode (Manual) > TYPE
Syntax	:SENSe:DATA:TELeom:DS[1..n]:MANual:TYPE?
Response Syntax	<TYPE>
Response(s)	TYPE: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of manual mode. NONE, None type is selected. LINE, Line type is selected. PAYLOAD, Payload type is selected.
Example(s)	SENS:DATA:TEL:DS1:MAN:TYPE LINE SENS:DATA:TEL:DS1:MAN:TYPE? Returns: LINE
See Also	SOURce:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DS[1..n]:MODE	
Description	This command sets the Mode. At *RST condition, this value is set to Auto-Response. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Mode
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of mode. AUTO, Sets AUTO-RESPONSE mode. MANual, Sets MANUAL mode.
Response Syntax	<TYPE>
Example(s)	SENS:DATA:TEL:DS1:MODE AUTO
See Also	SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE

:SENSe:DATA:TELEcom:DS[1..n]:MODE?

Description	This query returns the Mode. At *RST condition, this value is set to Auto-Response. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Mode
Syntax	:SENSe:DATA:TELEcom:DS[1..n]:MODE?
Response Syntax	<mode>
Response(s)	mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the value mode selected. AUTO, Auto-Response mode is selected. MANUAL, Manual mode is selected.
Example(s)	SENS:DATA:TEL:DS1:MODE AUTO SENS:DATA:TEL:DS1:MODE? Returns: AUTO
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

:SENSe:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing

Description	This command selects the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) for Through topology. At *RST condition, this value is set to CBITp. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the framing for transmission. UNFRAMED1: Unframed for DS1/DS3 M13: M13 for DS3 CBITP: Control-Bit (CBIT) for DS3 SF1: Superframe for DS1 ESF: Extended Superframe for DS1 SLC96: SLC96 for DS1 T1DALY: T1DALY for DS1
Response Syntax	<mode>
Example(s)	SENS:DATA:TEL:DS3:PAYL:FRAM UNF1
See Also	SOURce:DATA:TELeom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?

Description	This query returns the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) for Through topology. At *RST condition, this value is set to CBITp. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the framing that is used for transmission. UNFRAMED1, Unframed is selected as Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) framing. M13, M13 is selected as Digital Signal-level 3 (DS3) framing. CBITP, Control-Bit (C-Bit) Parity is selected as Digital Signal-level 3 (DS3) framing. SF1, Superframe (FSF) is selected as Digital Signal-level 1 (DS1) framing. ESF, Extended Superframe (FESF) is selected as Digital Signal-level 1 (DS1) framing. SLC96,SLC96 is selected as Digital Signal-level 1 (DS1) framing. T1DALY,T1DALY is selected as Digital Signal-level 1 (DS1) framing.
Example(s)	SENS:DATA:TEL:DS3:PAYL:FRAM UNF1 SENS:DATA:TEL:DS3:PAYL:FRAM? Returns: UNFRAMED1
See Also	SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELeom:PDH:E[1..n]:ENABled	
Description	This command enables/disables the activation of European standard for digital transmission-level 0 (E0)/64K testing for Through topology. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SENSe:DATA:TELeom:PDH:E[1..n]:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:PDH:E:ENAB ON
See Also	SOURce:DATA:TELeom:PDH:E:ENABled?

:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?

Description	This query returns the status of European standard for digital transmission-level 0 (E0)/64K testing for Through topology. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:PDH:E:ENAB ON SENS:DATA:TEL:PDH:E:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing	
Description	This command sets the E1/E2/E3/E4 framing for Through topology. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the frame coding that is used for transmission. UNFRAMED1: Unframed for E1/E2/E3/E4 PCM301: PCM30 (Pulse Code Modulation) for E1/E2/E3/E4 PCM30C41: PCM30 (Pulse Code Modulation)CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4 PCM311: PCM31 (Pulse Code Modulation) for E1/E2/E3/E4 PCM31C41: PCM31 (Pulse Code Modulation) CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4 FRAMED: Framed for E2/E3/E4
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:PDH:E1:FRAM UNF1
See Also	SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?

:SENSe:DATA:TELeom:PDH:E[1..n]:FRAMing?

Description	This query returns the E1/E2/E3/E4 framing for Through topology. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELeom:PDH:E[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the frame coding that is used for transmission. UNFRAMED1, Unframed is selected as E1/E2/E3/E4 framing. PCM301, Pulse Code Modulation (PCM30) is selected as E1/E2/E3/E4 framing. PCM30C41, Pulse Code Modulation (PCM30) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing. PCM311, PCM31 is selected as E1/E2/E3/E4 framing. PCM31C41, Pulse Code Modulation (PCM31) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing. FRAMED, Framed is selected as E2/E3/E4 framing.
Example(s)	SENS:DATA:TEL:PDH:E1:FRAM UNF1 SENS:DATA:TEL:PDH:E1:FRAM? Returns: UNFRAMED1
See Also	SOURce:DATA:TELeom:PDH:E[1..n]:FRAMing

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SOURce:DATA:TELecom:DSNPdh:BACKground	
Description	This command selects the background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Background
Syntax	:SOURce:DATA:TELecom:DSNPdh:BACKground <wsp> <Background Traffic>
Parameter(s)	Background Traffic: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the background traffic for SignalL CONFig. AIS: Alarm Indication Signal ALLZeros: ALLZeros
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:DSNPdh:BACKground AIS
See Also	SOURce:DATA:TELecom:BACKground:COMPUtation

:SOURce:DATA:TELEcom:DSNPdh:BACKground?

Description	This query returns the background traffic. At *RST condition, this value set to EQUIPPED1. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Background
Syntax	:SOURce:DATA:TELEcom:DSNPdh:BACKground?
Response Syntax	<Background traffic>
Response(s)	Background traffic: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the background traffic for Singal CONFig. AIS, Alarm Indication Signal (AIS) as background traffic is selected. ALLZeros, ALLZeros as background traffic is selected.
Example(s)	SOUR:DATA:TEL:DSNPdh:BACKground AIS SOUR:DATA:TEL:DSNPdh:BACKground? Returns: AIS
See Also	SOURce:DATA:TEL:BACKground:COMPUtation?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SOURce:DATA:TELEcom:DSNPdh:POSition	
Description	This command sets the DSn/PDH mapping position. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SOURce:DATA:TELEcom:DSNPdh:POSition <wsp><Positionid>, <Position1>, <Position2>, <Position3>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. DSEPOSition: DSn/PDH Position1: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the mapping position values. Position2: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position values. Position3: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the mapping position values.
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:DSNP:POS DSEPOSITION,1,1,0
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE

:SOURce:DATA:TELEcom:DSNPdh:POSition?

Description	This query returns the DSn/PDH mapping position. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SOURce:DATA:TELEcom:DSNPdh:POSition? <wsp><Positionid>
Parameter(s)	Positionid: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mapping position. DSEPOSition: DSn/PDH
Response Syntax	<Position>
Response(s)	Position: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:DSNP:POS DSEPOSITION,1,1,0 SOUR:DATA:TEL:DSNP:POS? DSEPOSITION Returns: (1,1,0)
See Also	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SOURce:DATA:TELecom:DS[1..n]:ENABled	
Description	This command enables/disables the activation of Digital Signal-level 0 (DS0)/64K testing. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ENABled <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:DS:ENAB ON
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SOURce:DATA:TELecom:DS[1..n]:ENABled?

Description	This query returns the status of Digital Signal-level 0 (DS0)/64K testing. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:DS:ENAB ON SOUR:DATA:TEL:DS:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:DS:ENABled

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing	
Description	This command selects the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3). At *RST condition, this value is set to CBITp. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the framing for transmission. CBITP: Control-Bit (CBIT) for DS3 ESF: Extended Superframe for DS1 M13: M13 (DS3) SF1: Superframe for DS1 SLC96: SLC96 for DS1 T1DALY: T1DALY for DS1 UNFRAMED1: Unframed for DS1/DS3
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DS3:PAYL:FRAM UNF1
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?

Description	This query returns the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3). At *RST condition, this value is set to CBITp. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the framing that is used for transmission. UNFRAMED1, Unframed is selected as Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) framing. M13, M13 is selected as Digital Signal-level 3 (DS3) framing. CBITP, Control-Bit (C-Bit) Parity is selected as Digital Signal-level 3 (DS3) framing. SF1, Superframe (FSF) is selected as Digital Signal-level 1 (DS1) framing. ESF, Extended Superframe (FESF) is selected as Digital Signal-level 1 (DS1) framing. SLC96,SLC96 is selected as Digital Signal-level 1 (DS1) framing. T1DALY,T1DALY is selected as Digital Signal-level 1 (DS1) framing.
Example(s)	SOUR:DATA:TEL:DS3:PAYL:FRAM UNF1 SOUR:DATA:TEL:DS3:PAYL:FRAM? Returns: UNFRAMED1
See Also	SOURce:DATA:TELEcom:DS[1..n]:PAYLoad:FRAMing

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle	
Description	This command enables/disables the activation of DS1 Tx Signaling. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Tx Signaling
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:DS1:SIGN:ENAB ON
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABLE?

Description	This query returns the status of DS1 Tx Signaling. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration -Tx Signaling
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:DS1:SIGN:ENAB ON SOUR:DATA:TEL:DS1:SIGN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABLE?

:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle	
Description	This command enables/disables the activation of E1 TX Signaling in PDH. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - TX Signaling
Syntax	:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:E1:SIGN:ENAB ON
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:ENABLE?

Description	This query returns the status of E1 TX Signaling in PDH. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - TX Signaling
Syntax	:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:E1:SIGN:ENAB ON SOUR:DATA:TEL:E1:SIGN:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:ENABLE?

SCPI Command Reference

Signal - Signal Configuration (DSn/PDH)

:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled	
Description	This command enables/disables the activation of European standard for digital transmission-level 0 (E0)/64K testing. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PDH:E:ENAB ON
See Also	SOURce:DATA:TELecom:PDH:E:ENABled?

:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?

Description	This query returns the status of European standard for digital transmission-level 0 (E0)/64K testing. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:E:ENAB ON SOUR:DATA:TEL:PDH:E:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

:SOURce:DATA:TELEcom:PDH:E[1..n]:FRAMing	
Description	This command sets the E1/E2/E3/E4 framing. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:FRAMing <wsp><Framing>
Parameter(s)	Framing: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the frame coding that is used for transmission. UNFRAMED1: Unframed for E1/E2/E3/E4 PCM301: PCM30 (Pulse Code Modulation) for E1/E2/E3/E4 PCM30C41: PCM30 (Pulse Code Modulation)CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4 PCM311: PCM31 (Pulse Code Modulation) for E1/E2/E3/E4 PCM31C41: PCM31 (Pulse Code Modulation) CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4 FRAMED: Framed for E2/E3/E4
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PDH:E1:FRAM UNF1
See Also	SOURce:DATA:TELEcom:PDH:E[1..n]:FRAMing?

:SOURce:DATA:TELeom:PDH:E[1..n]:FRAMing?

Description	This query returns the E1/E2/E3/E4 framing. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELeom:PDH:E[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	Framing: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the frame coding that is used for transmission. UNFRAMED1, Unframed is selected as E1/E2/E3/E4 framing. PCM301, Pulse Code Modulation (PCM30) is selected as E1/E2/E3/E4 framing. PCM30C41, Pulse Code Modulation (PCM30) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing. PCM311, PCM31 is selected as E1/E2/E3/E4 framing. PCM31C41, Pulse Code Modulation (PCM31) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing. FRAMED, Framed is selected as E2/E3/E4 framing.
Example(s)	SOUR:DATA:TEL:PDH:E1:FRAM UNF1 SOUR:DATA:TEL:PDH:E1:FRAM? Returns: UNFRAMED1
See Also	SOURce:DATA:TELeom:PDH:E[1..n]:FRAMing

S-OAM and MPLS-TP OAM

:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING?	
Description	This query returns the Quick ping status. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - OAM Quick Ping
Syntax	:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Quick ping status. INPROGRESS: Quick ping is in-progress SUCCESSFUL,: Quick ping completed successfully FAILED: Quick ping failed
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:QUICK:PING SENS:DATA:TEL:SOAM:PEER:MEP:QUICK:PING? Returns: INPROGRESS
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:PERiod?

:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRes:TYPE

Description	This command sets the Continuity Check Address Type. At *RST condition, this value is set to MULTICAST. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRes:TYPE[<wsp> <Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Address type. UNicast MULTicast
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:ADDRes:TYPE UNICAST SOUR:DATA:TEL:SOAM:CCHeck:ADDRes:TYPE? Returns: UNICAST
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:ENABLE?

:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRes:TYPE?	
Description	This query returns the Continuity Check Address Type. At *RST condition, this value is set to MULTICAST. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRes:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Address type. UNICAST, UNICAST is selected as Address type MULTICAST, MULTICAST is selected as Address type
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:ADDRes:TYPE UNICAST SOUR:DATA:TEL:SOAM:CCHeck:ADDRes:TYPE? Returns: UNICAST
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:ENABLE

:SOURce:DATA:TELecom:SOAM:CCHeck:DROp:ELIGible

Description	This command enables/disables Drop Eligible. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:DROp:ELIGible <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the status of Drop Eligible. YES NO
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:DROp:ELIGible NO SOUR:DATA:TEL:SOAM:CCHeck:DROp:ELIGible? Returns: NO
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:TOTal?

:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible?	
Description	This query returns the on/off status of Drop Eligible. At *RST condition, this value is set to NO. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Drop Eligible. YES,YES is selected as status of Drop Eligible. NO,NO is selected as status of Drop Eligible.
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible NO SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible? Returns: NO
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE

:SOURce:DATA:TELeom:SOAM:CCHeck:FUNCTion:ENABle

Description	This command enables/disables CC Function. At *RST condition, this value is set to ON. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - CC Function
Syntax	:SOURce:DATA:TELeom:SOAM:CCHeck:FUNCTion:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:FUNCTion:ENABle ON SOUR:DATA:TEL:SOAM:CCHeck:FUNCTion:ENABle? Returns: 1
See Also	SOURce:DATA:TELeom:SOAM:FUNC:CONT:ENABle?

:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCTion:ENABle?	
Description	This query returns the on/off status of CC Function. At *RST condition, this value is ON. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - CC Function
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCTion:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:FUNCTion:ENABle ON SOUR:DATA:TEL:SOAM:CCHeck:FUNCTion:ENABle? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNC:CONT:ENABle

:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

Description	This command sets the transmission period of the CCM frame. At *RST condition, this value is set to 100 ms. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Period
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod[<wsp><Period>]
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Period. P333MS: 3.33 MilliSeconds P10MS: 10 MilliSeconds P100MS: 100 MilliSeconds P1S: 1 Second P10S: 10 Seconds P1MIN: 1 Minute P10MIN: 10 Minutes
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PERiod P10MS SOUR:DATA:TEL:SOAM:CCHeck:PERiod? Returns: P10MS
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?	
Description	This query returns the transmission period of the CCM frame. At *RST condition, this value is 100 ms. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Period
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Period. P333MS, 3.33 MilliSeconds is selected as period P10MS, 10 MilliSeconds is selected as period P100MS,100 MilliSeconds is selected as period P1S, 1 Second is selected as period P10S, 10 Seconds is selected as period P1MIN, 1 Minute is selected as period P10MIN, 10 Minutes is selected as period
Example(s)	SOUR:DATA:TEL:SOAM:CCH:PER P10MS SOUR:DATA:TEL:SOAM:CCH:PER? Returns: P10MS
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:CCHeck:PRlority

Description	This command sets the Continuity Check Priority. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PRlority <wsp><value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the priority. 0: the priority 0 1: the priority 1 2: the priority 2 3: the priority 3 4: the priority 4 5: the priority 5 6: the priority 6 7: the priority 7
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PRlority 2 SOUR:DATA:TEL:SOAM:CCHeck:PRlority? Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:COUNT?

:SOURce:DATA:TELecom:SOAM:CCHeck:PRiority?	
Description	This query returns level of priority. At *RST condition, this value is set to 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PRiority?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the priority: 0, 1, 2, 3, 4, 5, 6, or 7
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PRiority 2 SOUR:DATA:TEL:SOAM:CCHeck:PRiority? Returns: 2
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE?

:SOURce:DATA:TELecom:SOAM:FUNCTion:ADDRes:TYPE

Description	This command sets the Address Type parameter shall determine the Destination Address Type of the LBM frame. At *RST condition, this value is set to Unicast. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTion:ADDRes:TYPE[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Address type. UNicast: the UNICAST type MULTicast: the MULTICAST type
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:ADDRes:TYPE MULTICAST SOUR:DATA:TEL:SOAM:FUNC:ADDRes:TYPE? Returns: MULTICAST
See Also	SOURce:DATA:TELecom:SOAM:LOC:DOMain:ID?

:SOURce:DATA:TELecom:SOAM:FUNCTion:ADDRes:TYPE?	
Description	This query returns the Address Type parameter shall determine the Destination Address Type of the LBM frame. At *RST condition, this value is set to Unicast. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTion:ADDRes:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Address type. UNICAST, UNICAST as selected Address type MULTICAST, MULTICAST as selected Address type
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:ADDRes:TYPE MULTICAST SOUR:DATA:TEL:SOAM:FUNC:ADDRes:TYPE? Returns: MULTICAST
See Also	SOURce:DATA:TELecom:SOAM:LOC:DOMain:ID

:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTInuous:ENAB

le

Description	This command sets the status of Continuous parameter. At *RST condition, this value is set to ON. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Continuous
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTInuous:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABLE ON SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABLE? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTInuous:ENABle?	
Description	This query returns the status of Continuous parameter as Enabled/Disabled. At *RST condition, this value is ON. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Continuous
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTInuous:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle ON SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID

:SOURce:DATA:TELecom:SOAM:FUNCTION:DROp:ELIGible

Description	This command enables/disable Drop Eligible. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTION:DROp:ELIGible <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the status of Drop Eligible. YES NO
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:DROp:ELIGible YES SOUR:DATA:TEL:SOAM:FUNC:DROp:ELIGible? Returns: YES
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:TOTal?

:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible?	
Description	This query returns the status of Drop Eligible. At *RST condition, this value is set to NO. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Drop Eligible. YES,YES is selected as status of Drop Eligible. NO,NO is selected as status of Drop Eligible.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible YES SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible? Returns: YES
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE

:SOURce:DATA:TELecom:SOAM:FUNCTION:FRAME:COUNT

Description

This command sets the Frame Count parameter shall set in inapplicable state if the Continuous parameter is enabled.
At *RST condition, this value is device dependent.
Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Count

Syntax

:SOURce:DATA:TELecom:SOAM:FUNCTION:FRAME:COUNT[<wsp><value>]

Parameter(s)

value:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the frame count.
MAXimum: Biggest supported value
MINimum: Smallest supported value
DEFault: Default value

Response Syntax

<Set>

Example(s)

SOUR:DATA:TEL:SOAM:FUNC:FRAME:COUNT 64
SOUR:DATA:TEL:SOAM:FUNC:FRAME:COUNT?
Returns: 64

See Also

SOURce:DATA:TELecom:SOAM:CCHeck:FUNCTION:ENABLE?

:SOURce:DATA:TELecom:SOAM:FUNCTioN:FRAMe:COUNT?	
Description	This query returns the Frame Count parameter. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Count
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTioN:FRAMe:COUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the frame count. This parameter is optional. If no token is specified, the current frame count value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame count. MAXimum, Gets the frame count as maximum. MINimum, Gets the frame count as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNT 64 SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNT? Returns: 64
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:FUNCTioN:ENABle

:SOURce:DATA:TELecom:SOAM:FUNCTION:FRAMe:SIZE

Description	This command sets the Frame Size parameter shall determine the LBM frame size. At *RST condition, this value is set to 64. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Size
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTION:FRAMe:SIZE[<wsp><value>]
Parameter(s)	value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame size. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE 68 SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE? Returns: 68
See Also	SOURce:DATA:TELecom:SOAM:LOC:MD:LEVel?

:SOURce:DATA:TELecom:SOAM:FUNCTioN:FRAMe:SIZE?	
Description	This query returns the Frame Size parameter shall determine the LBM frame size. At *RST condition, this value is 64. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Size
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTioN:FRAMe:SIZE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the frame size. This parameter is optional. If no token is specified, the current frame size value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX rate. MAXimum, Gets the frame size as maximum. MINimum, Gets the frame size as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE 68 SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE? Returns: 68
See Also	SOURce:DATA:TELecom:SOAM:LOC:MD:LEVel

:SOURce:DATA:TELEcom:SOAM:FUNCTION:PAYLoad

Description	This command sets the Payload value. At *RST condition, this value is set to CC. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - PayLoad
Syntax	:SOURce:DATA:TELEcom:SOAM:FUNCTION:PAYLoad[<wsp> <PAYLoad>]
Parameter(s)	PAYLoad: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Payload. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad #H00 SOUR:DATA:TEL:SOAM:FUNC:PAYLoad? Returns: 0
See Also	SOURce:DATA:TELEcom:SOAM:CCheck:PERiod?

:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad?	
Description	This query returns Payload value. At *RST condition, this value is CC. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - PayLoad
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad?
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the payload values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad #H00 SOUR:DATA:TEL:SOAM:FUNC:PAYLoad? Returns: 0
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

:SOURce:DATA:TELecom:SOAM:FUNctIon:PERiod?

Description	This query returns the Period parameter. At *RST condition, this value is set to 100ms. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Period
Syntax	:SOURce:DATA:TELecom:SOAM:FUNctIon:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Period. P333MS, 3.33 MilliSeconds is selected as period P10MS, 10 MilliSeconds is selected as period P100MS,100 MilliSeconds is selected as period P1S, 1 Second is selected as period P10S, 10 Seconds is selected as period P1MIN, 1 Minute is selected as period P10MIN, 10 Minutes is selected as period
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNctIon FRAMEDELAY SOUR:DATA:TEL:SOAM:FUNC:PERiod?
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING

:SOURce:DATA:TELecom:SOAM:FUNCtion:PRlority	
Description	This command sets the Priority. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PRlority <wsp><value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the priority. 0: the priority 0 1: the priority 1 2: the priority 2 3: the priority 3 4: the priority 4 5: the priority 5 6: the priority 6 7: the priority 7
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:FUNCtion:PRlority 2 SOUR:DATA:TEL:SOAM:FUNCtion:PRlority? Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:COUNT?

:SOURce:DATA:TELecom:SOAM:FUNCTion:PRiority?

Description	This query returns level of priority. At *RST condition, this value is set to 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTion:PRiority?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the priority. 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:FUNCTion:PRiority 2 SOUR:DATA:TEL:SOAM:FUNCTion:PRiority? Returns: 2
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAME:SIZE?

:SOURce:DATA:TELEcom:SOAM:FUNCtion:RMEPid:ENABle	
Description	This command enables/disables Requesting MEP ID TLV. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Requesting MEP ID TLV
Syntax	:SOURce:DATA:TELEcom:SOAM:FUNCtion:RMEPid:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle ON SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle? Returns: 1
See Also	SOURce:DATA:TELEcom:SOAM:PEER:MEP:ID?

:SOURce:DATA:TELecom:SOAM:FUNCTION:RMEPid:ENABLE?

Description	This query returns the on/off status of Requesting MEP ID TLV. At *RST condition, this value is ON. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Requesting MEP ID TLV
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTION:RMEPid:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle ON SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID

:SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:ID	
Description	This command sets the Test Pattern parameter shall determine the test pattern used to fill the Test TLV. At *RST condition, this value is set to 00 00 00 01. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Function (Synthetic Loss) > Test ID
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:ID[<wsp> <Test Id>]
Parameter(s)	Test Id: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Test Id.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TESTID SOUR:DATA:TEL:SOAM:FUNC:TEST:ID #H00FF00FF SOUR:DATA:TEL:SOAM:FUNC:TEST:ID? Returns: 16711935
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?

Description	This query returns the Pattern parameter shall determine the test pattern used to fill the Test TLV. At *RST condition, this value is 1. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Function (Synthetic Loss) > Test ID
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?
Response Syntax	<Test Id>
Response(s)	Test Id: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Peer MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TESTID SOUR:DATA:TEL:SOAM:FUNC:TEST:ID #H00FF00FF SOUR:DATA:TEL:SOAM:FUNC:TEST:ID? Returns: 16711935
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE

:SOURce:DATA:TELecom:SOAM:FUNCTioN:TEST:PATtern	
Description	This command sets the Test Pattern parameter shall determine the test pattern used to fill the Test TLV. At *RST condition, this value is set to PRBS31. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Pattern
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTioN:TEST:PATtern[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Test Pattern. NULLCRC32: NULLCRC32 NULLPATTERN: NULL PRBS31: PRBS31 PRBS31CRC32: PRBS31CRC32
Response Syntax	<Test Id>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TEST SOUR:DATA:TEL:SOAM:FUNC:TEST:PATtern PRBS31 SOUR:DATA:TEL:SOAM:FUNC:TEST:PATtern? Returns: PRBS31
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDReSS:TYPE?

:SOURce:DATA:TELeom:SOAM:FUNCtion:TEST:PATtern?

Description	This query returns the Pattern parameter shall determine the test pattern used to fill the Test TLV. At *RST condition, this value is PRBS31. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Pattern
Syntax	:SOURce:DATA:TELeom:SOAM:FUNCtion:TEST:PATtern?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Test Pattern. NULLCRC32, NULLCRC32 is selected as type of Test Pattern. NULLPATTERN,NULL is selected as type of Test Pattern. PRBS31, PRBS31 is selected as type of Test Pattern. PRBS31CRC32,PRBS31CRC32 is selected as type of Test Pattern.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TEST SOUR:DATA:TEL:SOAM:FUNC:TEST:PATtern PRBS31 SOUR:DATA:TEL:SOAM:FUNC:TEST:PATtern? Returns: PRBS31
See Also	SOURce:DATA:TELeom:SOAM:FUNC:ADDReSS:TYPE

:SOURce:DATA:TELeom:SOAM:FUNctioN:TLV:TYPE

Description	This command sets the TLV Type parameter shall be configured to Test and shall be set in read-only state. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TLV Type
Syntax	:SOURce:DATA:TELeom:SOAM:FUNctioN:TLV:TYPE[<wsp> <Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the TLV type. DATA INVALID TEST TESTID
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE DATA SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE? Returns: DATA
See Also	SOURce:DATA:TELeom:SOAM:CCHeck:ADDRess:TYPe?

:SOURce:DATA:TELEcom:SOAM:FUNCTION:TLV:TYPE?

Description	This query returns the TLV Type parameter. At *RST condition, this value is device dependent. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TLV Type
Syntax	:SOURce:DATA:TELEcom:SOAM:FUNCTION:TLV:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the TLV type. DATA, DATA is selected as TLV type. INVALID,INVALID is selected as TLV type. TEST, TEST is selected as TLV type. TESTID,TESTID is selected as TLV type.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE DATA SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE? Returns: DATA
See Also	SOURce:DATA:TELEcom:SOAM:CCHeck:ADDRes:TYPE

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle	
Description	This command enables/disables TX Enable. At *RST condition, this value is set to OFF. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Enable
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle ON SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRes?

:SOURce:DATA:TELecom:SOAM:FUNCTion:TX:ENABle?

Description	This query returns the on/off status of TX Enable. At *RST condition, this value is OFF. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Enable
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTion:TX:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle ON SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDReSS

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE	
Description	This command sets the TX Rate % parameter shall determine the transmission rate of the LBM frame. At *RST condition, this value is set to 99.4999. Range: 0.001 to 100.000% Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Rate
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TX rate. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNC LOOPBACK SOUR:DATA:TEL:SOAM:FUNC:TX:RATE 50 SOUR:DATA:TEL:SOAM:FUNC:TX:RATE? Returns: 50
See Also	SOURce:DATA:TELecom:SOAM:LOC:MA:NAME?

:SOURce:DATA:TELecom:SOAM:FUNCTION:TX:RATE?

Description	This query returns the TX Rate % parameter shall determine the transmission rate of the LBM frame. At *RST condition, this value is 99.4999. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Rate
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCTION:TX:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TX rate. This parameter is optional. If no token is specified, the current TX rate value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the TX rate. MAXimum, Gets the Tx rate as maximum. MINimum, Gets the Tx rate as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNC LOOPBACK SOUR:DATA:TEL:SOAM:FUNC:TX:RATE 50 SOUR:DATA:TEL:SOAM:FUNC:TX:RATE? Returns: 50
See Also	SOURce:DATA:TELecom:SOAM:LOC:MA:NAME

SCPI Command Reference

S-OAM and MPLS-TP OAM

:SOURce:DATA:TELecom:SOAM:IP	
Description	This command sets the IPv4 Address. At *RST condition, this value is set to 000.000.000.000 Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IP <wsp><Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the IPv4 address.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:IP 10.192.5.124
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPE

:SOURce:DATA:TELecom:SOAM:IP?

Description	This query returns the IPv4 Address. At *RST condition, this value is set to 000.000.000.000 Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IPv4 address.
Example(s)	SOUR:DATA:TEL:SOAM:IP 10.192.5.124 SOUR:DATA:TEL:SOAM:IP? Returns: 10.192.5.124
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe?

:SOURce:DATA:TELecom:SOAM:IPVersion	
Description	This command sets the IPv6 Address. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IPVersion <wsp><Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the IPv6 address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:IPV FE80:0000:0000:0000:0200:00FF:FE00:0000
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe

:SOURce:DATA:TELecom:SOAM:IPVersion?

Description	This query returns the IPv6 Address. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IPVersion?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IPv6 address.
Example(s)	SOUR:DATA:TEL:SOAM:IPV FE80:0000:0000:0000:0200:00FF:FE00:0000 SOUR:DATA:TEL:SOAM:IPV? Returns: FE80:0000:0000:0000:0200:00FF:FE00:0000
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe?

:SOURce:DATA:TELEcom:SOAM:LOCal:DOMain:ID	
Description	This command sets the Maintenance Domain Id. At *RST condition, this value is set to EXFO Domain ID. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - Domain ID
Syntax	:SOURce:DATA:TELEcom:SOAM:LOCal:DOMain:ID[<wsp><Domain Id>]
Parameter(s)	Domain Id: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Domain Id value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:DOMain:ID EXFO Domain SOUR:DATA:TEL:SOAM:LOC:DOMain:ID? Returns: EXFO Domain
See Also	SOURce:DATA:TELEcom:SOAM:FUNCTion:TEST:ID?

:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID?

Description	This query returns the Maintenance Domain Id. At *RST condition, this value is EXFO Domain ID. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - Domain ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID?
Response Syntax	<Domain Id>
Response(s)	Domain Id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local Domain Id value.
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:DOMain:ID EXFO Domain SOUR:DATA:TEL:SOAM:LOC:DOMain:ID? Returns: EXFO Domain
See Also	SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MA:NAME	
Description	This command sets the Maintenance Domain Name. At *RST condition, this value is set to EXFO MA Name. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - MA Name
Syntax	:SOURce:DATA:TELEcom:SOAM:LOCal:MA:NAME[<wsp><MA Name>]
Parameter(s)	MA Name: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the MA Name.
Response Syntax	<Domain Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:MA:NAME EXFO MA SOUR:DATA:TEL:SOAM:LOC:MA:NAME? Returns: EXFO MA
See Also	SOURce:DATA:TELEcom:SOAM:FUNCTion:TEST:PATTern?

:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME?

Description	This query returns the Maintenance Domain Name. At *RST condition, this value is EXFO MA Name. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - MA Name
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME?
Response Syntax	<MA Name>
Response(s)	MA Name: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local MA Name.
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:MA:NAME EXFO MA SOUR:DATA:TEL:SOAM:LOC:MA:NAME? Returns: EXFO MA
See Also	SOURce:DATA:TELecom:SOAM:FUNCTion:TEST:PATtern

:SOURce:DATA:TELEcom:SOAM:LOCal:MD:LEVel	
Description	This command sets the Maintenance domain levels. At *RST condition, this value is set to 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MD Level
Syntax	:SOURce:DATA:TELEcom:SOAM:LOCal:MD:LEVel[<wsp><MD Level>]
Parameter(s)	MD Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the MD Level. 0: the MD Level 0 1: the MD Level 1 2: the MD Level 2 3: the MD Level 3 4: the MD Level 4 5: the MD Level 5 6: the MD Level 6 7: the MD Level 7
Response Syntax	<MA Name>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:MD:LEVel 5 SOUR:DATA:TEL:SOAM:LOC:MD:LEVel? Returns: 5
See Also	SOURce:DATA:TELEcom:SOAM:FUNC:PAYLoad?

:SOURce:DATA:TELeom:SOAM:LOCaL:MD:LEVel?

Description	This query returns the Maintenance domain levels. At *RST condition, this value is 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MD Level
Syntax	:SOURce:DATA:TELeom:SOAM:LOCaL:MD:LEVel?
Response Syntax	<MD Level>
Response(s)	MD Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MD Level. 1, 1 is selected as MD Level 2, 2 is selected as MD Level 3, 3 is selected as MD Level 4, 4 is selected as MD Level 5, 5 is selected as MD Level 6, 6 is selected as MD Level 7,7 is selected as MD Level
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021 SOUR:DATA:TEL:SOAM:LOC:MD:LEVel 5 SOUR:DATA:TEL:SOAM:LOC:MD:LEVel? Returns: 5
See Also	SOURce:DATA:TELeom:SOAM:FUNC:PAYLoad

SCPI Command Reference

S-OAM and MPLS-TP OAM

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID	
Description	This command sets the MEG ID. At *RST condition, this value is set to EXFO MEG ID. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID[<wsp><MEG Id>]
Parameter(s)	MEG Id: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the MEG Id value.
Response Syntax	<MD Level>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCAl:MEG:ID EXFO 123 SOUR:DATA:TEL:SOAM:LOCAl:MEG:ID? Returns: EXFO 123
See Also	SOURce:DATA:TELecom:SOAM:LOCAl:MEP:ID?

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?

Description	This query returns the MEG ID. At *RST condition, this value is EXFO MEG ID. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?
Response Syntax	<MEG Id>
Response(s)	MEG Id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local MEG Id value.
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCAl:MEG:ID EXFO 123 SOUR:DATA:TEL:SOAM:LOCAl:MEG:ID? Returns: EXFO 123
See Also	SOURce:DATA:TELecom:SOAM:LOCAl:MEP:ID

:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:LEVel	
Description	This command sets the MEG Level. At *RST condition, this value is set to 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG Level
Syntax	:SOURce:DATA:TELEcom:SOAM:LOCal:MEG:LEVel[<wsp><MEG Level>]
Parameter(s)	MEG Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the MEG Level. 0: the MEG Level 0 1: the MEG Level 1 2: the MEG Level 2 3: the MEG Level 3 4: the MEG Level 4 5: the MEG Level 5 6: the MEG Level 6 7: the MEG Level 7
Response Syntax	<MEG Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCAl:MEG:LEVel 1 SOUR:DATA:TEL:SOAM:LOCAl:MEG:LEVel? Returns: 1
See Also	SOURce:DATA:TELEcom:SOAM:TESt:FUNCTion?

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?

Description	This query returns the MEG Level. At *RST condition, this value is 7. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?
Response Syntax	<MEG Level>
Response(s)	MEG Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MEG Level. 0, 0 is Selected as the MEG Level 1, 1 is Selected as the MEG Level 2, 2 is Selected as the MEG Level 3, 3 is Selected as the MEG Level 4, 4 is Selected as the MEG Level 5,5 is Selected as the MEG Level 6, 6 is Selected as the MEG Level 7, 7 is Selected as the MEG Level
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCAl:MEG:LEVel 1 SOUR:DATA:TEL:SOAM:LOCAl:MEG:LEVel? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:TEST:FUNctIon

:SOURce:DATA:TELecom:SOAM:LOCAl:MEP:ID	
Description	This command sets the local MEP ID. At *RST condition, this value is set to 0x0001. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCAl:MEP:ID[<wsp><MEP Id>]
Parameter(s)	MEP Id: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Local MEP ID. The range for the MEP ID is from 0x0001 to 0x1FFF
Response Syntax	<MEG Level>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCAl:MEP:ID #H15 SOUR:DATA:TEL:SOAM:LOCAl:MEP:ID? Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:THReshold?

:SOURce:DATA:TELecom:SOAM:LOCaL:MEP:ID?

Description	This query returns the Local MEP ID. At *RST condition, this value is 1. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCaL:MEP:ID?
Response Syntax	<MEP Id>
Response(s)	MEP Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Local MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:LOCaL:MEP:ID #H15 SOUR:DATA:TEL:SOAM:LOCaL:MEP:ID? Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:THReshold

:SOURce:DATA:TELeom:SOAM:MODE	
Description	This command sets the OAM mode. At *RST condition, this value is set to Y.1731 for S-OAM and G.8113.1 for MPLS-TP OAM. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > OAM Mode
Syntax	:SOURce:DATA:TELeom:SOAM:MODE[<wsp><Mode>]
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select S-OAM mode. Y1731: Y.1731 AG8021: 802.1ag MEF: MEF G8113: G.8113.1
Response Syntax	<MEP Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:MODE? Returns: Y1731
See Also	SOURce:DATA:TELeom:SOAM:RESponder:ENABle?

:SOURce:DATA:TELecom:SOAM:MODE?

Description	This query returns the OAM mode. At *RST condition, this value is set to Y.1731 for S-OAM and G.8113.1 for MPLS-TP OAM. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the S-OAM mode. Y1731, Y.1731 is selected as type of S-OAM mode AG8021, 802.1ag is selected as type of S-OAM mode MEF, MEF is selected as type of S-OAM mode G8113, G.8113.1 is selected as type of S-OAM mode
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731 SOUR:DATA:TEL:SOAM:MODE? Returns: Y1731
See Also	SOURce:DATA:TELecom:SOAM:RESponder:ENABle

:SOURce:DATA:TELEcom:SOAM:MPLStp:ENABLE	
Description	This command enables/disables Label2/Label1/GAL. At *RST condition, this value is ON. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL
Syntax	:SOURce:DATA:TELEcom:SOAM:MPLStp:ENABLE <wsp><Type>, <Status>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:ENAB GAL,ON
See Also	SOURce:DATA:TELEcom:SOAM:CCHeck:ADDRes:TYPe

:SOURce:DATA:TELecom:SOAM:MPLStp:ENABLE?

Description	This query returns the on/off status of Label2/Label1/GAL. At *RST condition, this value is ON. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:ENABLE? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:ENAB GAL,ON SOUR:DATA:TEL:SOAM:MPLS:ENAB? GAL Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel	
Description	This command sets the label id value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - Label
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:LABel <wsp><Type>,[<value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL. value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Label Id of Label2/Label1/GAL. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:LAB GAL,58
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel?

Description	This query returns the label id value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - Label
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:LABel? <wsp><Type>,[<Value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Label Id of Label2/Label1/GAL. This parameter is optional. If no token is specified, the Label Id value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Label Id of Label2/Label1/GAL.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:LAB GAL,58 SOUR:DATA:TEL:SOAM:MPLS:LAB? GAL Returns: 58
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDRes:TYPe?

:SOURce:DATA:TELecom:SOAM:MPLStp:MODE	
Description	This command sets the MPLS-TP mode. At *RST condition, this value is set to PW. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - MPLS-TP Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:MODE[<wsp> <Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects MPLS-TP mode LSP: LSP. PW: PW. SECTION: SECTION.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:MODE LSP
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELeom:SOAM:MPLStp:MODE?

Description	This query returns the MPLS-TP mode. At *RST condition, this value is set to PW. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - MPLS-TP Mode
Syntax	:SOURce:DATA:TELeom:SOAM:MPLStp:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MPLS-TP mode. LSP, LSP is selected. PW, PW is selected. SECTION, SECTION is selected.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:MODE LSP SOUR:DATA:TEL:SOAM:MPLS:MODE? Returns: LSP
See Also	SOURce:DATA:TELeom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:MPLStp:TC	
Description	This command sets the TC value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TC
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TC <wsp><Type>,[<value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TC of Label2/Label1/GAL. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TC GAL,5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDReSS:TYPe

:SOURce:DATA:TELecom:SOAM:MPLStp:TC?

Description	This query returns the TC value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TC
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TC? <wsp><Type>,[<Value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TC of Label2/Label1/GAL. This parameter is optional. If no token is specified, the TC value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TC of Label2/Label1/GAL.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TC GAL,5 SOUR:DATA:TEL:SOAM:MPLS:TC? GAL Returns: 5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:MPLStp:TTL	
Description	This command sets the TTL value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TTL <wsp><Type>,[<value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TTL of Label2/Label1/GAL. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TTL GAL,158
See Also	SOURce:DATA:TELecom:SOAM:FUNCTion:TX:RATE

:SOURce:DATA:TELEcom:SOAM:MPLStp:TTL?

Description	This query returns the TTL value of Label2/Label1/GAL. At *RST condition, this value is set to device dependant. Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TL
Syntax	:SOURce:DATA:TELEcom:SOAM:MPLStp:TTL? <wsp><Type>,[<Value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Label name. LABEL2: the Label2 LABEL1: the Label1 GAL: the GAL Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TTL of Label2/Label1/GAL. This parameter is optional. If no token is specified, the TTL value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TTL of Label2/Label1/GAL
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TTL GAL,158 SOUR:DATA:TEL:SOAM:MPLS:TTL? GAL Returns: 158
See Also	SOURce:DATA:TELEcom:SOAM:CCHeck:FUNCTion:ENABle

:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID	
Description	This command sets the peer MEP Id. At *RST condition, this value is set to 0x0001. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID[<wsp><MEP Id>]
Parameter(s)	MEP Id: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Peer MEP ID. The range for the MEP ID is from 0x0001 to 0x1FFF
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:ID #H15 SOUR:DATA:TEL:SOAM:PEER:MEP:ID? Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAME:COUNT?

:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

Description	This query returns the peer MEP Id. At *RST condition, this value is 1. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?
Response Syntax	<MEP Id>
Response(s)	MEP Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Peer MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:ID #H15 SOUR:DATA:TEL:SOAM:PEER:MEP:ID? Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAME:COUNT

:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRes	
Description	This command sets the MAC Address. At *RST condition, this value is set to 00:00:00:00:00:00. Setup > Test Configurator > S-OAM > Peer MEP Parameters - MAC Address Setup > Test Configurator > MPLS-TP OAM > Next Hop Router - MAC Address
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRes[<wsp> <Address>]
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Peer MEP MAC address.
Response Syntax	<MEP Id>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRes 00:00:00:FF:FF:CC SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRes? Returns: 00:00:00:FF:FF:CC
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPE?

:SOURce:DATA:TELeom:SOAM:PEER:MEP:MAC:ADDRes?

Description	This query returns the MAC Address. At *RST condition, this value is 00:00:00:00:00:00. Setup > Test Configurator > S-OAM > Peer MEP Parameters - MAC Address Setup > Test Configurator > MPLS-TP OAM > Next Hop Router - MAC Address
Syntax	:SOURce:DATA:TELeom:SOAM:PEER:MEP:MAC:ADDRes?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Peer MEP MAC address.
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRes 00:00:00:FF:FF:CC SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRes? Returns: 00:00:00:FF:FF:CC
See Also	SOURce:DATA:TELeom:SOAM:FUNC:TLV:TYPE

SCPI Command Reference

S-OAM and MPLS-TP OAM

:SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING	
Description	This command starts Quick ping. This command is an event and is not associated with an *RST condition. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - OAM Quick Ping
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:QUICK:PING SENS:DATA:TEL:SOAM:PEER:MEP:QUICK:PING? Returns: INPROGRESS
See Also	SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING? SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:PERiod?

:SOURce:DATA:TELecom:SOAM:RESPonder:ENABLE

Description	This command enables/disables the OAM Responder At *RST condition, this value is ON. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > S-OAM / MPLS-TP OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:RESPonder:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:RESPonder:ENABLE ON SOUR:DATA:TEL:SOAM:RESPonder:ENABLE? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:RESPonder:ENABLE?	
Description	This query returns the on/off status of the OAM Responder At *RST condition, this value is ON. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > S-OAM / MPLS-TP OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:RESPonder:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:RESPonder:ENABLE ON SOUR:DATA:TEL:SOAM:RESPonder:ENABLE? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABLE

Description	This command enables/disables Resolve MAC address. At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - Resolve MAC address
Syntax	:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:RES:MAC:ENAB ON
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABLE?	
Description	This query returns the on/off status of Resolve MAC address. At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - Resolve MAC address
Syntax	:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:RES:MAC:ENAB ON SOUR:DATA:TEL:SOAM:RES:MAC:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:TEST:FUNCTioN

Description	This command sets the functional requirements for the Test function. At *RST condition, this value is set to Loopback. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Function
Syntax	:SOURce:DATA:TELecom:SOAM:TEST:FUNCTioN[<wsp><Type>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select Test Function type. LOOPBACK TEST FRAMEDELAY FRAMELOSS SYNTHETICLOSS
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNCTION FRAMELOSS SOUR:DATA:TEL:SOAM:TEST:FUNCTION? Returns: FRAMELOSS
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?

:SOURce:DATA:TELecom:SOAM:TEST:FUNCTion?	
Description	This command sets the functional requirements for the Test function. At *RST condition, this value is set to Loopback. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Function
Syntax	:SOURce:DATA:TELecom:SOAM:TEST:FUNCTion?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Test Function type. LOOPBACK, LOOPBACK is selected as type of Test Function TEST, TEST is selected as type of Test Function FRAMEDELAY, FRAMEDELAY is selected as type of Test Function FRAMELOSS, FRAMELOSS is selected as type of Test Function SYNTHETICLOSS,SYNTHETICLOSS is selected as type of Test Function
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNCTION FRAMELOSS SOUR:DATA:TEL:SOAM:TEST:FUNCTION? Returns: FRAMELOSS
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel

Thresholds (S-OAM)

:SOURce:DATA:TELecom:SOAM:THReshold

Description	This command sets the threshold values At *RST condition, the threshold values are 50.0 ms for Frame Dealy, 10.0% for Frame Loss, and 10.0% for Synthetic Loss. Navigation Path: Setup > Test Configurator > Setup > S-OAM > S-OAM or MPLS-TP OAM > Thresholds
Syntax	:SOURce:DATA:TELecom:SOAM:THReshold <wsp><Type>, <Value>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select Threshold type. FRAMEDELAY: Frame Delay Threshold FRAMELOSS: Frame Loss Threshold SYNTHETICLOSS: Synthetic Loss Threshold Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the threshold value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<UTCOffset>
Example(s)	SOUR:DATA:TEL:SOAM:THReshold FRAMEDELAY, 20 SOUR:DATA:TEL:SOAM:THReshold? FRAMEDELAY Returns: 20
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?

:SOURce:DATA:TELecom:SOAM:THReshold?	
Description	This query returns the threshold values At *RST condition, the threshold values are 50.0 ms for Frame Dealy, 10.0% for Frame Loss, and 10.0% for Synthetic Loss. Navigation Path: Setup > Test Configurator > Setup > S-OAM > S-OAM or MPLS-TP OAM > Thresholds
Syntax	:SOURce:DATA:TELecom:SOAM:THReshold? <wsp><Type>,[<Value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select Threshold type. FRAMEDELAY: Frame Delay Threshold FRAMELOSS: Frame Loss Threshold SYNTHETICLOSS: Synthetic Loss Threshold Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns threshold value. This parameter is optional. If no token is specified, the threshold value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<value>
Response(s)	value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the threshold value.
Example(s)	SOUR:DATA:TEL:SOAM:THReshold FRAMEDELAY, 20 SOUR:DATA:TEL:SOAM:THReshold? FRAMEDELAY Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:LOCa:l:MEG:ID

RFC 6349

:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?

Description	This query returns the ID (name) of the remote. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (Remote module ID)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?
Response Syntax	<Remote ID>
Response(s)	Remote ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Remote ID
Example(s)	FETC:DATA:TEL:ETH:RFC:EWOR:RID? Returns the remote's ID
See Also	FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?

:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTate?	
Description	This query returns the state of the remote. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (Remote Status)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTate?
Response Syntax	<State>
Response(s)	State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Remote state
Example(s)	FETC:DATA:TEL:ETH:RFC:EWOR:RSTA? Returns the remote's state
See Also	FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTate?

:FETCh:DATA:TELeom:ETHernet:RFC:NATDiscovery:LWIPaddress?

Description	This query returns the WAN IP of the local unit. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (WAN IP address)
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:NATDiscovery:LWIPaddress?
Response Syntax	<IP Address>
Response(s)	IP Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local WAN IP Address
Example(s)	FETC:DATA:TEL:ETH:RFC:NATD:LWIP? Returns the local's WAN IP Address
See Also	FETCh:DATA:TELeom:ETHernet:RFC:NATDiscovery:RWIPaddress?

:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?	
Description	This query returns the NAT discovery status. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (NAT discovery status)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?
Response Syntax	<Nat Status>
Response(s)	Nat Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns NAT discovery status
Example(s)	FETC:DATA:TEL:ETH:RFC:NATD:STAT? Returns the NAT discovery status
See Also	FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay

Description	This command sets the Buffer Delay Weight. At *RST, this value is set to 1.0 Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > Buffer Delay Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay <wsp><Buffer Delay Weight>
Parameter(s)	Buffer Delay Weight: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Buffer Delay Weight MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Nat Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF 1.0 SOUR:DATA:TEL:ETH:RFC:ADV:BUFF? Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr

:SOURce:DATA:TELEcom:ETHernet:RFC:ADVanced:BUFFerdelay?	
Description	This query returns the value of Buffer Delay Weight. At *RST, this value is set to 1.0 Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > Buffer Delay Weight
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:ADVanced:BUFFerdelay?[<wsp><Buffer Delay Weight>]
Parameter(s)	Buffer Delay Weight: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token specified, the current Buffer Delay Weight is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Buffer Delay Weight>
Response(s)	Buffer Delay Weight: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of Buffer Delay Weight.
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF 1.0 SOUR:DATA:TEL:ETH:RFC:ADV:BUFF? Returns: 1.0
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:ADVanced:TCPThr?

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPTThr

Description	This command sets the TCP Throughput Weight. At *RST, this value is set to 0.0 Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > TCP Throughput Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPTThr <wsp><TCP Throughput Weight>
Parameter(s)	TCP Throughput Weight: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the TCP Throughput Weight MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Buffer Delay Weight>
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT 1.0 SOUR:DATA:TEL:ETH:RFC:ADV:TCPT? Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?	
Description	This query returns the value of TCP Throughput Weight. At *RST, this value is set to 0.0 Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > TCP Throughput Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?[<wsp><TCP Throughput Weight>]
Parameter(s)	TCP Throughput Weight: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP Throughput Weight is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<TCP Throughput Weight>
Response(s)	TCP Throughput Weight: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the value of TCP Throughput Weight.
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT 1.0 SOUR:DATA:TEL:ETH:RFC:ADV:TCPT? Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay?

:SOURce:DATA:TELecom:ETHernet:RFC:CIR

Description	This command sets the CIR for RFC 6349 test application. At *RST, this value is set to 1.0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > CIR
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CIR <wsp> <Direction>, <CIR>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local CIR: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the CIR MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TCP Throughput Weight>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CIR LTOR, 2.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TOSDs

:SOURce:DATA:TELecom:ETHernet:RFC:CIR?	
Description	This query returns the CIR for RFC 6349 test application. At *RST, this value is set to 1.0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > CIR
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CIR? <wsp><Direction>,[<CIR>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local CIR: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current CIR is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<CIR>
Response(s)	CIR: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the CIR value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:CIR LTOR, 2.2 SOUR:DATA:TEL:ETH:RFC:CIR? LTOR Returns 2.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TOSDs?

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNection:MANual	
Description	This command sets the manual number of connections. At *RST, this value is set to system connection limit. Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Manual
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:CONNection:MANual <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the manual number of connections. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<CIR>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MAN 5
See Also	SOUR:DATA:TELEcom:ETHernet:RFC:CONNection:MANual?

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual?	
Description	This query returns the number of connections configured in manual mode for RFC 6349 test application. At *RST this value is set to system connection limit. Navigation path: Setup>Test Configurator>RFC6349>Number Of Connections>Manual
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current manual value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Manual Number of Connections.
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MAN 5
See Also	SOUR:DATA:TELecom:ETHernet:RFC:CONNection:MANual

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODE

Description	This command selects the number of connections mode for RFC 6349 test application. At *RST this value sets to AUTO. Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the number of connections mode. AUTO: Auto MANUAL: Manual
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MOD AUTO
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODE?

:SOURce:DATA:TELEcom:ETHernet:RFC:CONNection:MODE?	
Description	This query returns the number of connections mode for RFC 6349 test application. At *RST value sets to AUTO. Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:CONNection:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the number of connections mode. AUTO: Auto MANUAL: Manual
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MOD MANUAL SOUR:DATA:TEL:ETH:RFC:CONN:MOD? Returns MANUAL
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:CONNection:MODE

:SOURce:DATA:TELeom:ETHernet:RFC:DIRection

Description	This command selects the direction for RFC 6349 test application At *RST, this value is set to BIDIRECTIONAL. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:DIRection <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction BIDIRECTIONAL: Bidirectional LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:DIR LTOR
See Also	SOURce:DATA:TELeom:ETHernet:RFC:TCP:SERPort

:SOURce:DATA:TELeom:ETHernet:RFC:DIRection?	
Description	This query returns the direction for RFC 6349 test application. At *RST, this value is set to BIDIRECTIONAL. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:DIRection?
Response Syntax	<Direction>
Response(s)	Direction: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the direction BIDIRECTIONAL: Bidirectional LTOR: Local to Remote RTOL: Remote to Local
Example(s)	SOUR:DATA:TEL:ETH:RFC:DIR LTOR SOUR:DATA:TEL:ETH:RFC:DIR? Returns LTOR
See Also	SOURce:DATA:TELeom:ETHernet:RFC:TCP:SERPort?

:SOURce:DATA:TELEcom:ETHernet:RFC:IPERf:VERsion

Description	This query returns the iPerf Version for RFC 6349 test application. At *RST, this value is set to v2. Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > iPerf Responder > Version
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:IPERf:VERsion <wsp><Version>
Parameter(s)	Version: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Version VERSION2: v2 VERSION3: v3
Response Syntax	<Direction>
Example(s)	SOUR:DATA:TEL:ETH:RFC:IPER:VERS
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:LISTening:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:IPERf:VERSIon?	
Description	This query returns the iPerf Version for RFC 6349 test application. At *RST, this value is set to v2. Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > iPerf Responder > Version
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:IPERf:VERSIon?
Response Syntax	<Version>
Response(s)	Version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Selects the Version VERSION2: v2 VERSION3: v3
Example(s)	SOUR:DATA:TEL:ETH:RFC:IPER:VERS VERSION3 SOUR:DATA:TEL:ETH:RFC:IPER:VERS? Returns VERSION3
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT

Description	This command sets the Listening TCP port for RFC 6349 iPerf Compatible Server operation mode. At *RST, this value is set to 5001. Navigation Path: Setup > Test Configurator > RFC 6349 > iPerf Compatible Server > Listening TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT <wsp><Port Number>
Parameter(s)	Port Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Remote Port Number MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Version>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LIST:PORT 3456 SOUR:DATA:TEL:ETH:RFC:LIST:PORT? Returns: 3456
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMote:PORT

:SOURce:DATA:TELeom:ETHernet:RFC:LISTening:PORT?	
Description	This query returns the Listening TCP port for RFC 6349 iPerf Compatible Server operation mode. At *RST, this value is set to 5001. Navigation Path: Setup > Test Configurator > RFC 6349 > iPerf Compatible Server > Listening TCP Port
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:LISTening:PORT?[<wsp><Port Number>]
Parameter(s)	Port Number: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP port number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Port Number>
Response(s)	Port Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Listening TCP port number.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LIST:PORT 3456 SOUR:DATA:TEL:ETH:RFC:LIST:PORT? Returns: 3456
See Also	SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU

Description	This command sets the Max MTU value At *RST, this value is set to 1500 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max MTU
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Max MTU value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAX:MTU 1080
See Also	SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DIScovery

:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?	
Description	This query returns the Max MTU for RFC 6349 test application. At *RST, this value is set to 1500 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max MTU
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current MTU value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Max MTU value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAX:MTU 1080 SOUR:DATA:TEL:ETH:RFC:MAX:MTU? Returns 1080
See Also	SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCover?

:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections

Description	This command selects the max number of connection allowed for RFC 6349 test application. At *RST, this value is set to 16. Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > Max Nb of Connection Allowed
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the max number of connection allowed 16 128
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAXC 16

:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections?	
Description	This query returns the max number of connection allowed for RFC 6349 test application. At *RST, this value is set to 16. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max Nb of Connection Allowed
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections?
Response Syntax	<Number>
Response(s)	Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the max number of connection allowed 16 128
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAXC 16 SOUR:DATA:TEL:ETH:RFC:MAXC? Returns: 16

:SOURce:DATA:TELecom:ETHernet:RFC:MUlTiple:CONNections

Description	This command enable disables Multiple connections At *RST, this value is set to 1 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Multiple Connections
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MUlTiple:CONNections <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable/disable the Multiple connections ON: Enables the Multiple connections OFF: Disables the Multiple connections
Response Syntax	<Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MULT:CONN ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe

:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNECTIONs?	
Description	This query returns status of Multiple connection At *RST, this value is set to 1 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Multiple Connections
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNECTIONs?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Multiple connection status 1, Multiple connection is enabled. 0, Multiple connection is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:MULT:CONN ON SOUR:DATA:TEL:ETH:RFC:MULT:CONN? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODE?

:SOURce:DATA:TELeom:ETHernet:RFC:OPERation:MODE

Description	This command selects the operation mode for RFC 6349 test application. At *RST, this value is set to Dual Test Set. Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > Operation mode
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:OPERation:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the operation mode RFC6349DTS: RFC 6349 DTS IPERFCS: iPerf Responder (previously: iPerf Compatible Server) TCPTDTS: TCP Throughput DTS
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:OPER:MOD RFC6349DTS
See Also	SOURce:DATA:TELeom:ETHernet:RFC:DIRection

:SOURce:DATA:TELeom:ETHernet:RFC:OPERation:MODE?	
Description	This query returns the operation mode for RFC 6349 test application. At *RST, this value is set to Dual Test Set. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Operation mode
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:OPERation:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Operation mode RFC6349DTS: RFC 6349 DTS IPERFCS: iPerf Responder (previously: iPerf Compatible Server) TCPTDTS: TCP Throughput DTS
Example(s)	SOUR:DATA:TEL:ETH:RFC:OPER:MOD RFC6349DTS SOUR:DATA:TEL:ETH:RFC:OPER:MOD? Returns RFC6349DTS
See Also	SOURce:DATA:TELeom:ETHernet:RFC:DIRection?

:SOURce:DATA:TELeom:ETHernet:RFC:PATH:MTU:DISCovey

Description	This command sets the status for Path MTU discovery. At *RST, this value is set to ON. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Path MTU Discovery
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:PATH:MTU:DISCovey <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable/disable the Path MTU Discovery. ON: Enables the Path MTU Discovery. OFF: Disables the Path MTU Discovery.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC ON
See Also	SOURce:DATA:TELeom:ETHernet:RFC:MAX:MTU

:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCover? ?	
Description	This query returns the status for Path MTU discovery. At *RST, this value is set to 0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Path MTU Discovery
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCover?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Path MTU Discovery status. 1, Path MTU Discovery is enabled. 0, Path MTU Discovery is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC ON SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP	
Description	This command set the remote IP for the EXFO Worx Interop operation mode of RFC 6349 test application. At *RST, this value is set to Dual Test Set. Navigation Path: Setup > Test Configurator > RFC 6349 > Remote IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP <wsp><IP Address>
Parameter(s)	IP Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the Remote IP Address
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:ADDR:IP 1.2.3.4 SOUR:DATA:TEL:ETH:RFC:ADDR:IP? Return 1.2.3.4
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP?	
Description	This query returns the remote IP for the EXFO Worx Interop operation mode of RFC 6349 test application. At *RST, this value is set to Dual Test Set. Navigation Path: Setup > Test Configurator > RFC 6349 > Remote IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP?
Response Syntax	<IP Address>
Response(s)	IP Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Remote IP Address DTS: Dual test set IPREF
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:ADDR:IP? Returns remote's IP address
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRes:IP?

:SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT

Description	This command set the TCP port number of RFC 6349 test application. At *RST, this value is set to 50201. Navigation Path: Setup > Test Configurator > RFC 6349 > TCP Port
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT <wsp><Port Number>
Parameter(s)	Port Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the Remote Port Number MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<IP Address>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:PORT 56789 SOUR:DATA:TEL:ETH:RFC:REMO:PORT? Return 56789
See Also	SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT

:SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT?	
Description	This query returns the TCP port number of RFC 6349 test application. At *RST, this value is set to 50201. Navigation Path: Setup > Test Configurator > RFC 6349 > TCP Port
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT?[<wsp> <Port Number>]
Parameter(s)	Port Number: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP port number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Port Number>
Response(s)	Port Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Remote port number DTS: Dual test set IPREF
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:PORT? Returns remote's port number
See Also	SOURce:DATA:TELeom:ETHernet:RFC:REMOte:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:REStore:DEFault

Description	This command restore defaults the RFC 6349 values. This is a action commands and has no default value. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Restore RFC 6349 Defaults.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REStore:DEFault
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REST:DEF
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault SOURce:DATA:TELecom:ETHernet:ESAM:REStore:DEFault SOURce:DATA:TELecom:ETHernet:STream:GLOBal:REStore:DEFault SOURce:DATA:TELecom:REStore:DEFault

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort	
Description	This command sets the TCP server port for RFC 6349 test application. At *RST, this value is set to 50201. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Server port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort <wsp><Direction>, <TCP server port>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local TCP server port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TCP server port value MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:SERP 24
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODE

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort?

Description	This query returns the direction for RFC 6349 test application. At *RST, this value is set to 50201 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Server port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort? <wsp> <Direction>,[<Value>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port number. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TCP server port>
Response(s)	TCP server port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TCP server port value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:SERP 24 SOUR:DATA:TEL:ETH:RFC:TCP:SERP? Returns 24
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODE?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DU Ration	
Description	This command sets the TCP Throughput duration. At *RST, this value is set to 00d:00:01:00 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation <wsp><Duration>
Parameter(s)	Duration: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the TCP throughput duration. Format is 00d:hh:mm:ss
Response Syntax	<TCP server port>
Example(s)	SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR 00d:00:01:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold

:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:DURation?

Description	This query returns the TCP Throughput duration. At *RST, this value is set to 00d:00:01:00 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Duration
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:DURation?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the TCP Throughput duration
Example(s)	SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR 00d:00:01:01 SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR? Returns 00d:00:01:01
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:THReshold?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THR eshold	
Description	This command sets the TCP Throughput Threshold. At *RST, this value is set to 95.0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Threshold(%) Navigation Path: Results > Summary > TCP Throughput > TCP Throughput Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THR eshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TCP Throughput Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR 20.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation

**:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THR
eshold?**

Description	This query returns the TCP Throughput Threshold. At *RST, this value is set to 95.0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Threshold(%) Navigation Path: Results > Summary > TCP Throughput > TCP Throughput Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP Throughput Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Threshold value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR 20.2 SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR? Returns 20.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict	
Description	This command enable disables the TCP Throughput Verdict At *RST, this value is set to 1 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable/disable the TCP throughput verdict. ON: Enables the verdict OFF: Disables the verdict
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?

Description	This query returns status of the TCP Throughput Verdict At *RST, this value is set to 1 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the verdict status 1, verdict is enabled. 0, verdict is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD 1 SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs	
Description	This command sets the TOS/DS for RFC 6349 test application. At *RST, this value is set to 0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs <wsp> <Direction>, <TOSDS>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local TOSDS: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the TOS/DS value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TOSD LTOR,#H01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR

:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs?

Description	This query returns the TOS/DS for RFC 6349 test application. At *RST, this value is set to 0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<TOS/DS>
Response(s)	TOS/DS: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TOS/DS value
Example(s)	SOUR:DATA:TEL:ETH:RFC:TOSD LTOR,#H01 SOUR:DATA:TEL:ETH:RFC:TOSD? LTOR Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR?

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor	
Description	This command sets the Window Boost Factor for RFC 6349 test application. At *RST, this value is set to 1.0 NavigationPath: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Boost
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor <wsp><Direction>, <WBFactor>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local WBFactor: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Window Boost Factor MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TOS/DS>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF 1.3
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR

:SOURce:DATA:TELeom:ETHernet:RFC:WBFactor:ENABle

Description	This command enables Window Boost Factor At *RST, this value is set to OFF Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost - Enable
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:WBFactor:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable/disable the Window Boost Factor ON: Enables OFF: Disables
Response Syntax	<TOS/DS>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF:ENAB ON
See Also	SOURce:DATA:TELeom:ETHernet:RFC:WINDow:SWEep ON

:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor:ENABle?	
Description	This query returns the Window Boost Factor Enable status. At *RST, this value is set to OFF Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost - Enable
Syntax	:SOURce:DATA:TELEcom:ETHernet:RFC:WBFactor:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Window Boost Factor enable status 1, Enabled. 0, Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF:ENAB ON SOUR:DATA:TEL:ETH:RFC:WBF:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor?

Description	This query returns the Window Boost Factor for RFC 6349 test application. At *RST condition, this value is set to 1.0 Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor? <wsp><Direction>,[<WBFactor>]
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local WBFactor: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Window Boost Factor is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<WBFactor>
Response(s)	WBFactor: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Window Boost Factor value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF 1.3 SOUR:DATA:TEL:ETH:RFC:WBF? Returns: 1.3
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR?

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep	
Description	This command sets the Window sweep status At *RST, this value is set to 0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enable/disable the Window sweep ON: Enables the Window sweep OFF: Disables the Window sweep
Response Syntax	<WBFactor>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THROUGHput:VERDict

**:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DUR
ation**

Description	This command sets the Window sweep status. At *RST, this value is set to 00:30 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep > Duration (per step)
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation <wsp><Duratoin>
Parameter(s)	Duratoin: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Window sweep duration. Format is MM:SS
Response Syntax	<WBFactor>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR 00:30
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation?	
Description	This query returns the Window sweep status. At *RST, this value is set to 00:30 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep > Duration (per step)
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation?
Response Syntax	<Duration>
Response(s)	Duration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Window sweep duration
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR 00:30 SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR? Returns 00:30
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep?

:SOURce:DATA:TELeom:ETHernet:RFC:WINDow:SWEep?

Description	This query returns the Window sweep status. At *RST, this value is set to 0 Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:WINDow:SWEep?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Window sweep status 1, Window sweep is enabled. 0, Window sweep is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE ON SOUR:DATA:TEL:ETH:RFC:WIND:SWE? Returns 1
See Also	SOURce:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:VERDict?

:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget	
Description	This command selects the direction for RFC 6349 test application At *RST, this value is set to BIDIRECTIONAL. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Window size target WS1M: window size 1 MiB WS4M: window size 4 MiB WS8M: window size 8 MiB WS16M: window size 16 MiB WS32M: window size 32 MiB
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WSIZetarget
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort

:SOURce:DATA:TELeom:ETHernet:RFC:WSIZetarget?

Description	This query returns the direction for RFC 6349 test application. At *RST, this value is set to BIDIRECTIONAL. Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELeom:ETHernet:RFC:WSIZetarget?
Response Syntax	<Window Size>
Response(s)	Window Size: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Window size target WS1M: window size 1 MiB WS4M: window size 4 MiB WS8M: window size 8 MiB WS16M: window size 16 MiB WS32M: window size 32 MiB
Example(s)	SOUR:DATA:TEL:ETH:RFC:WSIZetarget WS4M SOUR:DATA:TEL:ETH:RFC:WSIZetarget? Returns WindowSize4MiB
See Also	SOURce:DATA:TELeom:ETHernet:RFC:TCP:SERPort?

Link OAM

:FETCh:DATA:TELEcom:LOAM:DISCovery:LOCal:STATus?	
Description	This query returns the Local OAM Discovery Status. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Link OAM > OAM Discovery Status > Local
Syntax	:FETCh:DATA:TELEcom:LOAM:DISCovery:LOCal:STATus?
Response Syntax	<Local Discovery Status>
Response(s)	Local Discovery Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return local Status as Unsatisfied Stable Evaluating.
Example(s)	FETC:DATA:TEL:LOAM:DISC:LOC:STAT?
See Also	SOURce:DATA:TELEcom:TSCan:SCAN:ENABLE?

:FETCh:DATA:TELecom:LOAM:DISCovey:REMOte:STATus?

Description	This query returns the Remote OAM Discovery Status. At *RST, this value is device dependent. Navigation Path: Setup > Test Configurator > Link OAM > OAM Discovery Status > Remote
Syntax	:FETCh:DATA:TELecom:LOAM:DISCovey:REMOte:STATus?
Response Syntax	<Remote Discovery Status>
Response(s)	Remote Discovery Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return remote Status as Unsatisfied Stable Evaluating.
Example(s)	FETC:DATA:TEL:LOAM:DISC:REM:STAT?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLE?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus?	
Description	This query returns Local or Remote Loopback status. At *RST, this value of Local Loopback Status is Disabled and Remote Loopback Status depends on Remote capability. Navigation Path: Setup > Test Configurator > Link OAM > Local And Remote Loopback Status Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Local And Remote Loopback Status
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus? <wsp><Device>
Parameter(s)	Device: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Get Loopback status Enabled or Disabled. LOCal REMote
Response Syntax	<Status of Loopback>
Response(s)	Status of Loopback: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return Staus as Disabled or Enabled.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT? LOC
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:SOURce:DATA:TELecom:LOAM:LBACk:LOCal

Description	This command allows configuration of Local Loopback. At *RST, this button control is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Local Loopback Enable Button Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Local Loopback Enable Button.
Syntax	:SOURce:DATA:TELecom:LOAM:LBACk:LOCal <wsp><Local Status>
Parameter(s)	Local Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set Local Loopback Enabled or Disabled. ENABLE DISable
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:LBAC:LOC ENABLE
See Also	SOURce:DATA:TELecom:ETHer:RFC:WIND:SWE:DUR

:SOURce:DATA:TELecom:LOAM:LBACk:REMOte	
Description	This command allows configuration of Remote Loopback. At *RST, this button control is set to Gridout Enable. Navigation Path: Setup > Test Configurator > Link OAM > Remote Loopback Enable Button Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Remote Loopback Enable Button.
Syntax	:SOURce:DATA:TELecom:LOAM:LBACk:REMOte <wsp> <Remote Status>
Parameter(s)	Remote Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set Remote Loopback Enabled or Disabled. ENABLE DISable
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:LBAC:REMO ENABLE
See Also	SOURce:DATA:TELecom:ETHer:RFC:WIND:SWE:DUR

:SOURce:DATA:TELecom:LOAM:MODE

Description	This command allows configuration of OAM Mode. At *RST, this value is set to Active. Navigation Path: Setup > Test Configurator > Link OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:LOAM:MODE <wsp><OAM Mode>
Parameter(s)	OAM Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set OAM Mode to ACTIVE or PASSIVE.
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:MODE PASSIVE
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE

:SOURce:DATA:TELecom:LOAM:MODE?	
Description	This query returns the OAM Mode. At *RST, this value is set to Active. Navigation Path: Setup > Test Configurator > Link OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:LOAM:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return the OAM Mode. ACTIVE: Activate Active Mode. PASSIVE: Activate Passive Mode.
Example(s)	SOUR:DATA:TEL:LOAM:MODE?
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE?

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC

Description	This command allows configuration of OAM PDU Destination MAC Address. At *RST, this value is set to 01:80:C2:00:00:02. Navigation Path: Setup > Test Configurator > Link OAM > OAMPDU Destination MAC Address
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC <wsp><MAC Address>
Parameter(s)	MAC Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the MAC Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC 00:03:01:00:00:04
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABLe	
Description	This command allows configuration of Default MAC Button. At *RST, this value is set to Check Enable. Navigation Path: Setup > Test Configurator > Link OAM > Default
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABLe <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC:ENABLe ON
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLe

:SOURce:DATA:TELeom:LOAM:PDU:DESTination:MAC:ENABLe?

Description	This query returns the status of Default MAC Button. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Default
Syntax	:SOURce:DATA:TELeom:LOAM:PDU:DESTination:MAC:ENABLe?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC:ENAB?
See Also	SOURce:DATA:TELeom:TSCan:SCAN:ENABLe?

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC?	
Description	This query returns the OAMPDU Destination MAC Address. At *RST, this value is set to 01:80:C2:00:00:02. Navigation Path: Setup > Test Configurator > Link OAM > OAMPDU Destination MAC Address
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC?
Response Syntax	<MAC Address>
Response(s)	MAC Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns OAM PDU Dest MAC Address.
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC?
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE?

:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABLE

Description	This command allows configuration of Remote Alarms Checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Alarms
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<MAC Address>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ALAR:ENAB OFF
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLE

:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABLE?	
Description	This query returns the status of Remote Alarms checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Alarms
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ALAR:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLE?

:SOURce:DATA:TELecom:LOAM:VERDict:ENABle

Description	This command allows configuration of Pass/Fail Verdict checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ENAB 1
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:VERDict:ENABle?	
Description	This query returns the Pass/Fail Verdict. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle

Description	This command allows configuration of Remote Loopback checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Loopback
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:LBAC:ENAB ON
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABLE?	
Description	This query returns the Remote Loopback status. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Loopback
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:LBAC:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLE?

Modify Trib Slots/Channels (Multi-Channel OTN)

:SOURce:DATA:TELecom:OTN:FRAMing:MIX

Description	This command sets ODUx and Port Id for both direction to the user specified values and reset assignment of TributarySlot. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels> Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing:MIX <wsp><OduType>, <List of ODUx, PortId>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Parent ODU type value. Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id) List of ODUx, PortId: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. List of (ODUx, PortId, ...)
Response Syntax	<Channel Frequency>
Example(s)	SOUR:DATA:TEL:OTN:FRAM:MIX ODU4,(ODU0,1,ODU1,2,ODU2,5)SOUR:DATA:TEL:OTN:FRAM:MIX? ODU4 (ODU0,1,ODU1,2,ODU2,5)
See Also	SOURce:DATA:TELecom:OTN:TRIButaries SOURce:DATA:TELecom:OTN:TRIButaries:COUPled SOURce:DATA:TELecom:OTN:TRIButaries:COUPled? SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult SOURce:DATA:TELecom:OTN:TRIButaries:COPI SOURce:DATA:TELecom:OTN:TRIButaries?

:SOURce:DATA:TELecom:OTN:FRAMing:MIX?	
Description	This command Gets ODUx and Port Id list. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels> Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing:MIX? <wsp><OduType>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Parent ODU type value. Example: Type ODU4 when mapping is ODU4/ODUk.
Response Syntax	<ODU Type>
Response(s)	ODU Type: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return the ODU type of each channel
Example(s)	SOUR:DATA:TEL:OTN:FRAM:MIX ODU4,(ODU0,1,ODU1,2,ODU2,5)SOUR:DATA:TEL:OTN:FRAM:MIX? ODU4 (ODU0,1,ODU1,2,ODU2,5)
See Also	SOURce:DATA:TELecom:OTN:FRAM:MI SOURce:DATA:TELecom:OTN:TRIButaries:COUPled SOURce:DATA:TELecom:OTN:TRIButaries:COUPled? SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult SOURce:DATA:TELecom:OTN:TRIButaries:COPY SOURce:DATA:TELecom:OTN:TRIButaries?

:SOURce:DATA:TELecom:OTN:TRIButaries

Description	This command sets ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction to the user specified values N.B. Partial list of ODUx Tributary configuration is allowed and will be auto-completed by assigning free increasing tributary slot id to free increasing tributary port id. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries <wsp><OduType>, <Direction>, <Tributary>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Parent ODU type value. Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id) Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the channel direction to apply the tributaries configuration TX: TX valid only when the Coupled Status is OFF, invalid otherwise RX: RX valid only when the Coupled Status is OFF, invalid otherwise RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise Tributary: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. List of ODUx Tributary Configuration

:SOURce:DATA:TELecom:OTN:TRIButaries	
Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB ODU4,rxandtx,(ODU2,1,(80,79,78,77,76,75,74,73),ODU2,10,(33:34,35,36,37:40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1 SOUR:DATA:TEL:OTN:TRIB ODU4,rx,(ODU2,1,(80,79,78,77,76,75,74,73),ODU2,10,(33,34,35,36:37,38,39,40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0 SOUR:DATA:TEL:OTN:TRIB ODU4,tx,(ODU2,1,(80,79,78:73),ODU2,10,(33,34,35,36,37,38,39,40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELecom:OTN:TRIButaries? SOURce:DATA:TELecom:OTN:TRIButaries:COUPled SOURce:DATA:TELecom:OTN:TRIButaries:COUPled? SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult SOURce:DATA:TELecom:OTN:TRIButaries:COPY

:SOURce:DATA:TELecom:OTN:TRIButaries:COPIYrx

Description	Copy the received ODUx Tributaries configuration (Port Id/ Slot Id Associations) into the RX ODUx Tributaries configuration (Port Id/ Slot Id Associations) This command is an event and is not associated with an *RST condition or a query form. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COPIYrx
Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COPY
See Also	SOURce:DATA:TELecom:OTN:TRIButaries? SOURce:DATA:TELecom:OTN:TRIButaries:COUPled SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled	
Description	This command sets the Coupled Status for the ODUx Tributaries Configuration At *RST condition, this value is set to ON. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled <wsp><Status>,[<Direction>]
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the source to destination direction to copy the tributaries configuration TXTORX valid only when the Coupled Status is ON, will copy the TX tributaries configurarion over the RX tributaries configurarion. RXTOTX valid only when the Coupled Status is ON, will copy the RX tributaries configurarion over the TX tributaries configurarion. Invalid when the Coupled Status is OFF
Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COUP ON, TXTORX SOUR:DATA:TEL:OTN:TRIB:COUP ON, RXTOTX SOUR:DATA:TEL:OTN:TRIB:COUP OFF
See Also	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled? SOURce:DATA:TELecom:OTN:TRIButaries SOURce:DATA:TELecom:OTN:TRIButaries? SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

Description	This query returns the Coupled Status for the ODUx Tributaries Configuration At *RST condition, this value is set to ON. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
Response Syntax	<Coupled Status>
Response(s)	Coupled Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the slot status, whether it is selected or not. 1, returns the slot value as ON. 0, returns the slot value as OFF.
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COUP?
See Also	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled SOURce:DATA:TELecom:OTN:TRIButaries SOURce:DATA:TELecom:OTN:TRIButaries? SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

:SOURce:DATA:TELEcom:OTN:TRIButaries:DEFAult	
Description	This command sets ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction to the default values N.B. Default ODUx Tributary configuration is a group of increasing tributary slot id assigned to increasing tributary port id. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELEcom:OTN:TRIButaries:DEFAult <wsp><OduType>, <Direction>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Parent ODU type value. Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id) Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the channel direction to apply the tributaries configuration TX: TX valid only when the Coupled Status is OFF, invalid otherwise RX: RX valid only when the Coupled Status is OFF, invalid otherwise RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise
Response Syntax	<Coupled Status>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:DEFA RXANDTX when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1 SOUR:DATA:TEL:OTN:TRIB:DEFA RX when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0 SOUR:DATA:TEL:OTN:TRIB:DEFA TXwhen SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELEcom:OTN:TRIButaries? SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled?

:SOURce:DATA:TELecom:OTN:TRIButaries?

Description	This query returns the complete list of ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries? <wsp><OduType>, <Direction>
Parameter(s)	OduType: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the Parent ODU type value. Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id) Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the channel direction to apply the tributaries configuration TX: TX valid only when the Coupled Status is OFF, invalid otherwise RX: RX valid only when the Coupled Status is OFF, invalid otherwise RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise
Response Syntax	<List of ODUx Tributary Configuration>

:SOURce:DATA:TELEcom:OTN:TRIButaries?	
Response(s)	List of ODUx Tributary Configuration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns all ODUx Tributary configuration for specified parent ODU type. Ex: Using multi-channel test application with ODU4/ODU2 mapping and after configuring the tributaries at default the command TRIB? returns (ODU2,1,(1,2,3,4,5,6,7,8),ODU2,2,(9,10,11,12,13,14,15,16),ODU2,3,(17,18,19,20,21,22,23,24),ODU2,4,(25,26,27,28,29,30,31,32),ODU2,5,(33,34,35,36,37,38,39,40),ODU2,6,(41,42,43,44,45,46,47,48),ODU2,7,(49,50,51,52,53,54,55,56),ODU2,8,(57,58,59,60,61,62,63,64),ODU2,9,(65,66,67,68,69,70,71,72),ODU2,10,(73,74,75,76,77,78,79,80))
Example(s)	SOUR:DATA:TEL:OTN:TRIB? ODU4,rxandtx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1 SOUR:DATA:TEL:OTN:TRIB? ODU4,tx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0 SOUR:DATA:TEL:OTN:TRIB? ODU4,rx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELEcom:OTN:TRIButaries SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled SOURce:DATA:TELEcom:OTN:TRIButaries:COUPled? SOURce:DATA:TELEcom:OTN:TRIButaries:DEFault SOURce:DATA:TELEcom:OTN:TRIButaries:COPY

Optical Device Under Test (iOptics)

:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABLE

Description	This command enables/disables Bidirectional transceiver. At *RST condition, this value set to OFF. Navigation Path: Setup > Test Configurator > Device Under Test > Use with QSFP28 to SFP28 Adapter
Syntax	:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABLE <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: ON: Enables OFF: Disables
Response Syntax	<Type>
Example(s)	SOURCE:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB ON SOURCE:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCTion:TX:ENable

:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABLE?	
Description	This query returns enables/disables status for Bidirectional transceiver. At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > Device Under Test > Use with QSFP28 to SFP28 Adapter
Syntax	:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABLE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB ON SOUR:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCTion:TX:ENable

:SOURce:DATA:TELeom:IOPTics:BDIRectional

Description	This command enables/disables Bidirectional transceiver. At *RST condition, this value set to OFF. Navigation Path: Setup > Test Configurator > Device Under Test > Bidirectional
Syntax	:SOURce:DATA:TELeom:IOPTics:BDIRectional <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOURCE:DATA:TEL:IOPT:BDIR ON SOURCE:DATA:TEL:IOPT:BDIR? Returns: 1
See Also	SOURce:DATA:TELeom:SOAM:FUNcTion:TX:ENable

:SOURce:DATA:TELecom:IOPTics:BDIRectional?	
Description	This query returns enables/disables status for Bidirectional transceiver. At *RST condition, this value is OFF. Navigation Path: Setup > Test Configurator > Device Under Test > Bidirectional
Syntax	:SOURce:DATA:TELecom:IOPTics:BDIRectional?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:IOPT:BDIR ON SOUR:DATA:TEL:IOPT:BDIR? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNcTion:TX:ENAbLe

:SOURce:DATA:TELeom:IOPTics:LOOPback:PORT?

Description	This query return the iOptics Loopback Port. At *RST condition, this value set to device-dependent. Navigation Path: Setup > Test Configurator > Optical Device Under Test.
Syntax	:SOURce:DATA:TELeom:IOPTics:LOOPback:PORT?
Response Syntax	<Loopback Port Id>
Response(s)	Loopback Port Id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the iOptics Loopback Port.
Example(s)	SOUR:DATA:TEL:IOPT:LOOP:PORT?
See Also	SOUR:DATA:TEL:ETH:PORT:TRAN?

SCPI Command Reference

Optical Device Under Test (iOptics)

:SOURce:DATA:TELecom:IOPTics:LTYPe	
Description	This command sets the host or media loopback type for iOptics Application. At *RST condition, this value is None. Navigation Path: Setup > Test Configurator > Optical Device Under Test > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:IOPTics:LTYPe <wsp><Loopback>
Parameter(s)	Loopback: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. NONE: No loopback HOST_SIDE_INPUT: Host side input loopback MEDIA_SIDE_OUTPUT: Media side output loopback
Response Syntax	<Loopback Port Id>
Example(s)	SOUR:DATA:TEL:IOPT:LTYP NONE
See Also	SOURce:DATA:TELecom:IOPTics:RATE

:SOURce:DATA:TELeom:IOPTics:LTYPe?

Description	This query returns the host or media loopback type for iOptics Application. At *RST condition, this value is None. Navigation Path: Setup > Test Configurator > Optical Device Under Test > Host/Media Loopback
Syntax	:SOURce:DATA:TELeom:IOPTics:LTYPe?
Response Syntax	<Loopback>
Response(s)	Loopback: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the host or media loopback type NONE: No loopback HOST_SIDE_INPUT: Host side input loopback MEDIA_SIDE_OUTPUT: Media side output loopback
Example(s)	SOUR:DATA:TEL:IOPT:LTYP NONE SOUR:DATA:TEL:IOPT:LTYP? Returns: NONE
See Also	SOURce:DATA:TELeom:IOPTics:RATE?

SCPI Command Reference

Optical Device Under Test (iOptics)

:SOURce:DATA:TELecom:IOPTics:RATE	
Description	This command configures the interface rate for iOptics Application. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Optical Device Under Test > Rate
Syntax	:SOURce:DATA:TELecom:IOPTics:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface rate. 100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN 1X, 2X, 4X, 8X, 10X, 16X, 32X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.8G, 10.1G OTU3: OTU3 (4 Lanes) [43.018 Gbit/s] OTU4: OTU4 (4 Lanes) [111.81 Gbit/s] 25GE: 25GE 40GE: 40GE (4 lanes) [41.25 Gbit/s] 100GE: 100GE (4 lanes) [103.125 Gbit/s] 200GE: 200GE (4 lanes) [212.5 Gbit/s] OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s] OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s] 400GE: 400GE (8 lanes) [425 Gbit/s]
Response Syntax	<Loopback>
Example(s)	SOUR:DATA:TEL:IOPT:RATE 1GEOPTICAL SOUR:DATA:TEL:IOPT:RATE? Returns: 1GEOPTICAL
See Also	SOURce:DATA:TELecom:ITYPE

:SOURce:DATA:TELecom:IOPTics:RATE?

Description	This query returns the interface rate for iOptics Application. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Optical Device Under Test > Rate
Syntax	:SOURce:DATA:TELecom:IOPTics:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface rate. 100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN 1X, 2X, 4X, 8X, 10X, 16X, 32X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.8G, 10.1G OTU3: OTU3 (4 Lanes) [43.018 Gbit/s] OTU4: OTU4 (4 Lanes) [111.81 Gbit/s] 25GE: 25GE 40GE: 40GE (4 lanes) [41.25 Gbit/s] 100GE: 100GE (4 lanes) [103.125 Gbit/s] 200GE: 200GE (4 lanes) [212.5 Gbit/s] OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192 OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s] OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s] 400GE: 400GE (8 lanes) [425 Gbit/s]

SCPI Command Reference

Optical Device Under Test (iOptics)

:SOURce:DATA:TELEcom:IOPTics:RATE?	
Example(s)	SOUR:DATA:TEL:IOPT:RATE 1X SOUR:DATA:TEL:IOPT:RATE? Returns: 1X
See Also	SOURce:DATA:TELEcom:ITYPE?

Test Sequence (iOptics)

:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe?

Description	This query returns the RX Power Range for iOptics Application. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Test Sequence > RX Power Range (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe? <wsp><Range>
Parameter(s)	Range: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the RX Power Range to return. RMAXimum: Selects the Minimum range. RMINimum: Selects the Maximum range.
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Selects the Power Value.
Example(s)	FETC:DATA:TEL:IOPT:POW:RX:RANG? RMAX
See Also	FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

:FETCh:DATA:TELEcom:IOPTics:POWer:TX:RANGe?	
Description	This query returns the TX Power Range for iOptics Application. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Test Sequence > TX Power Range (dBm)
Syntax	:FETCh:DATA:TELEcom:IOPTics:POWer:TX:RANGe? <wsp><Range>
Parameter(s)	Range: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the TX Power Range to return. RMAXimum: Selects the Minimum range. RMINimum: Selects the Maximum range.
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Selects the Power Value.
Example(s)	FETC:DATA:TEL:IOPT:POW:TX:RANG? RMAX
See Also	FETCh:DATA:TELEcom:CPRI:SUMMery:RX:COUNter?

:SOURce:DATA:TELEcom:IOPTics:BERT:DURation

Description	This command allows to select the BERT test duration for iOptics Application. At *RST condition, this value is set to 1 minutes. Navigation Path: Setup > Test Configurator > Test Sequence > BERT Duration
Syntax	:SOURce:DATA:TELEcom:IOPTics:BERT:DURation <wsp><TIME>
Parameter(s)	TIME: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the test duration. 1M: 1 Minute 2M: 2 Minutes 3M: 3 Minutes 4M: 4 Minutes 5M: 5 Minutes 30M: 30 Minutes
Response Syntax	<Power>
Example(s)	SOUR:DATA:TEL:IOPT:BERT:DUR 5M SOUR:DATA:TEL:IOPT:BERT:DUR? Returns: 5M
See Also	SOURce:DATA:TELEcom:TIMer:DURation

:SOURce:DATA:TELecom:IOPTics:BERT:DURation?	
Description	This query returns the BERT test duration for iOptics Application. At *RST condition, this value is set to 1 minutes. Navigation Path: Setup > Test Configurator > Test Sequence > BERT Duration
Syntax	:SOURce:DATA:TELecom:IOPTics:BERT:DURation?
Response Syntax	<TIME>
Response(s)	TIME: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the BERT duration. 1M, 1 Minute. 2M, 2 Minutes. 3M, 3 Minutes. 4M, 4 Minutes. 5M, 5 Minutes. 30M, 30 Minutes.
Example(s)	SOUR:DATA:TEL:IOPT:BERT:DUR 5M SOUR:DATA:TEL:IOPT:BERT:DUR? Returns: 5M
See Also	SOURce:DATA:TELecom:TIMer:DURation?

:SOURce:DATA:TELecom:IOPTics:BERT:THReshold?

Description	This query returns the BERT Threshold for iOptics Application. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > Test Sequence > BERT Threshold
Syntax	:SOURce:DATA:TELecom:IOPTics:BERT:THReshold?
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the BERT Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:BERT:THR? Returns: 5
See Also	SOURce:DATA:TELecom:CABLeTest:LENGth:THReshold?

SCPI Command Reference

Test Sequence (iOptics)

:SOURce:DATA:TELecom:IOPTics:CPCHeck	
Description	This command enables/disables the control pin check status for iOptics application. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Test Sequence > Control Pin Check
Syntax	:SOURce:DATA:TELecom:IOPTics:CPCHeck <wsp><Control Pin Check>
Parameter(s)	Control Pin Check: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:IOPT:CPCH ON SOUR:DATA:TEL:IOPT:CPCH? Returns: 1
See Also	SOURce:DATA:TELecom:IOPTics:CPCHeck?

:SOURce:DATA:TELecom:IOPTics:CPCHeck?

Description	This Query returns the enable/disable control pin check status for iOptics Test. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Test Sequence > Control Pin Check
Syntax	:SOURce:DATA:TELecom:IOPTics:CPCHeck?
Response Syntax	<Control Pin Check>
Response(s)	Control Pin Check: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable control pin check status. 1: Enabled. 0: Disabled.
Example(s)	SOUR:DATA:TEL:IOPT:CPCH ON SOUR:DATA:TEL:IOPT:CPCH? Returns: 1
See Also	SOURce:DATA:TELecom:IOPTics:CPCHeck

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict	
Description	This command enables/disables the power threshold verdict for iOptics application. At *RST condition, this value is set to Enabled. Navigation Path: Setup > Test Configurator > Test Sequence > Power Threshold (W)
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict <wsp><Verdict>
Parameter(s)	Verdict: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Control Pin Check>
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR:VERD ON SOUR:DATA:TEL:IOPT:POW:THR:VERD? Returns: 1
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABLE

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?

Description	This Query returns enable/disable verdict status for iOptics Test. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Test Sequence > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable verdict status. 1: Enabled. 0: Disabled.
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR:VERD ON SOUR:DATA:TEL:IOPT:POW:THR:VERD? Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:RFC:TCP:THRoughput:VERDict?

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?	
Description	This query returns the power threshold value for iOptics application. At *RST condition, this value is device dependent. Navigation Path: Setup > Test Configurator > Test Sequence > Power Threshold (W)
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Power Threshold value.
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR? Returns: 10
See Also	SOURce:DATA:TELecom:OTN:OTL:THReshold?

:SOURce:DATA:TELecom:IOPTics:SKEW:THReshold?

Description	This query returns the SKEW Threshold for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Setup > Test Configurator > Test Sequence > SKEW Threshold
Syntax	:SOURce:DATA:TELecom:IOPTics:SKEW:THReshold?
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the SKEW Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:SKEW:THR? Returns: 5
See Also	SOURce:DATA:TELecom:IOPTics:BERT:THReshold?

:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold	
Description	This command configure the temperature Threshold for iOptics Application. At *RST condition, this value is set to 70. Navigation Path: Setup > Test Configurator > Test Sequence > Temp. Threshold (C)
Syntax	:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold <wsp><Temperature>
Parameter(s)	Temperature: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Temperature Threshold. Choices are 0 to 75 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:IOPT:TEMP:THR 50 SOUR:DATA:TEL:IOPT:TEMP:THR? Returns: 50
See Also	SENSe:DATA:TELecom:PATtern:THReshold:COUNt

:SOURce:DATA:TELEcom:IOPTics:TEMPerature:THReshold?

Description	This query returns the Temperature Threshold for iOptics Application. At *RST condition, this value is set to 70. Navigation Path: Setup > Test Configurator > Test Sequence > Temp. Threshold (C)
Syntax	:SOURce:DATA:TELEcom:IOPTics:TEMPerature:THReshold?[<wsp><Temperature>]
Parameter(s)	Temperature: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current temperature is returned. MAXimum: Biggest value MINimum: Smallest value
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Temperature Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:TEMP:THR? Returns: 50
See Also	SENSe:DATA:TELEcom:PATTeRn:THReshold:COUNt?

FlexE Group

:FETCh:DATA:TELecom:FETHernet:GROup:CalendarMISmatch?	
Description	This query returns the live status of FlexE Calendar Mismatch. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Mismatch
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:CalendarMISmatch?
Response Syntax	<Calendar Mismatch>
Response(s)	Calendar Mismatch: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns FlexE Calendar Mismatch live status.
Example(s)	FETCh:DATA:TEL:FETH:GRO:CMIS?

:FETCh:DATA:TELecom:FETHernet:GROup:STATus?

Description	This query returns the status of FlexE Group Navigation Path: Setup > Test Configurator > FlexE Group > FlexE Status
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns FlexE Group Status
Example(s)	FETCh:DATA:TEL:FETH:GRO:STAT?

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar	
Description	This command selects the FlexE Calendar. At *RST condition, this value is set to CALENDARA. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar <wsp> <Calendar In Use>
Parameter(s)	Calendar In Use: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FlexE Calendar CALENDARA: Calendar A CALENDARB: Calendar B
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB SOUR:DATA:TEL:FETH:GRO:CAL? Returns: CALENDARB
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

:SOURce:DATA:TELecom:FETHernet:GROup:CALEndar:GRANularity

Description	This command selects the FlexE Calendar Granularity. At *RST condition, this value is set to 5G. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Granularity
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALEndar:GRANularity <wsp> <Calendar Granularity>
Parameter(s)	Calendar Granularity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FlexE Calendar granularity 5G 25G
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL:GRAN 5G SOUR:DATA:TEL:FETH:GRO:CAL:GRAN? Returns: 5G
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALEndar

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity?	
Description	This query returns the FlexE Calendar Granularity. At *RST condition, this value is set to 5G. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Granularity
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity?
Response Syntax	<Calendar Granularity>
Response(s)	Calendar Granularity: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FlexE Calendar granularity 5G 25G
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL:GRAN 25G SOUR:DATA:TEL:FETH:GRO:CAL:GRAN? Returns: 25G
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

Description	This query returns the FlexE Calendar currently in use. At *RST condition, this value is set to CALENDARA. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3 C bit
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?
Response Syntax	<Calendar In Use>
Response(s)	Calendar In Use: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FlexE Calendar currently in use CALENDARA: Calendar A CALENDARB: Calendar B
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB SOUR:DATA:TEL:FETH:GRO:CAL? Returns: CALENDARB
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar

:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer	
Description	This command sets the Group Number associated with the FlexE Group.
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer <wsp> <GroupNumber>
Parameter(s)	GroupNumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the group number associated with the FlexE group. Value Range: 0 to 1048575
Response Syntax	<Calendar In Use>
Example(s)	SOUR:DATA:TEL:FETH:GRO:NUMB 128 SOUR:DATA:TEL:FETH:GRO:NUMB ? Returns: 128
See Also	SOURce:DATA:TELecom:FETHernet:GROup:NUMBer?

:SOURce:DATA:TELEcom:FETHernet:GROup:NUMBer?

Description	This query returns the group number associated with a FlexE group.
Syntax	:SOURce:DATA:TELEcom:FETHernet:GROup:NUMBer?
Response Syntax	<GroupNumber>
Response(s)	GroupNumber: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the group number associated with the FlexE group.
Example(s)	SOUR:DATA:TEL:FETH:GRO:NUMB 128 SOUR:DATA:TEL:FETH:GRO:NUMB? Returns: 128
See Also	SOURce:DATA:TELEcom:FETHernet:GROup:NUMBer

FlexE Calendar

:SOURce:DATA:TELecom:FETHernet:CLient:CALeNDAR:ACLient	
Description	This command adds a new Client of the given size with the given list of FlexE Calendar Slots into the FlexE Calendar Configuration Navigation Path: Setup > Test Configurator > FlexE Group > Modify... > Add Client
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALeNDAR:ACLient <wsp><Client ID>, <Client Rate>, <FlexE Calendar Occupied Slots>

:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:AClient

Parameter(s)

Client ID:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Specified Client ID between 1 and 65534

DEFault: Smallest available Client ID

MINimum: Smallest available Client ID

MAXimum: Biggest available Client ID

Client Rate:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the type of FlexE Client Rate

_5GB: 5Gb Client occupying 1 Calendar Slot

_10GB: 10Gb Client occupying 2 Calendar Slots

_25GB: 25Gb Client occupying 5 Calendar Slots

_40GB: 40Gb Client occupying 8 Calendar Slots

_50GB: 50Gb Client occupying 10 Calendar Slots

_100GB: 100Gb Client occupying 20 Calendar Slots

_150GB: 150Gb Client occupying 30 Calendar Slots

_200GB: 200Gb Client occupying 40 Calendar Slots

_250GB: 250Gb Client occupying 50 Calendar Slots

_300GB: 300Gb Client occupying 60 Calendar Slots

_350GB: 350Gb Client occupying 70 Calendar Slots

_400GB: 400Gb Client occupying 80 Calendar Slots

FlexE Calendar Occupied Slots:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

String containing a coma separated list of FlexE Calendar Zero Based Slot Index between open/close parenthesis delimiters

For Granularity 5G

Example: (0,1)

For Granularity 25G the parameters will have 1 slot out of group of 5

Example: (0) selects 0,1,2,3,4 slots

:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:ACLient

Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:ACL 1,_10GB,(0,1) SOUR:DATA:TEL:FETH:CLI:CAL:ACL 2,_100GB,(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21) For 25G granularity SOUR:DATA:TEL:FETH:CLI:CAL:ACL 2,_25GB,(10) SOUR:DATA:TEL:FETH:CLI:CAL:ACL 3,_100GB,(15,20,25,30)
See Also	SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:CONFig? SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:RCLient

:SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:CONFig?

Description	This query returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client Id, Ethernet Interface, List of Occupied Calendar Slots) Navigation Path: Setup > Test Configurator > FlexE Group > Modify... Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - Client Calendar
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:CONFig?
Response Syntax	<FlexE Client Calendar Configuration>
Response(s)	FlexE Client Calendar Configuration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client Id, Ethernet Interface, List of Occupied Calendar Slots) Ex: Using a single _200Gb default client (1,_200Gb,(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39)) The numbering of the slot is from 0 to 79, so PHY1 uses 0 to 19, PHY2 uses 20 to 39 and so on.
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?
See Also	SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:DELe SOURce:DATA:TELecom:FETHernet:CLI:CALEndar:AClient SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:RCLient SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:MCID SOURce:DATA:TELecom:FETHernet:CLient:CALEndar:MOSlots

:SOURce:DATA:TELecom:FETHernet:CLient:CALendar:DElete	
Description	This command removes all Clients from the FlexE Calendar Configuration Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALendar:DElete
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLient:CAL:DEL
See Also	SOURce:DATA:TELecom:FETHernet:CLient:CALendar:CONFig?

:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:MCID

Description	This command replaces an existing Client Id by the new given one Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:MCID <wsp> <Old Client ID>, <New Client ID>
Parameter(s)	Old Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID to be replaced New Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID used to replace with
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:MCID 1,456
See Also	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?

:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:MOSLots	
Description	This command assigns the given list of FlexE Calendar Occupied Slots to the given Client ID Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:MOSLots <wsp> <Client ID>, <FlexE Calendar Occupied Slots>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID to be modified FlexE Calendar Occupied Slots: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. String containing a coma separated list of FlexE Calendar Zero Based Slot Index between open/close parenthesis delimiters For Granularity 5G Example: (0,1) For Granularity 25G the parameters will have 1 slot out of group of 5 Example: (0) selects 0,1,2,3,4 slots
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:MOSL 1,(5,6,7,8,9) For 25G granularity SOUR:DATA:TEL:FETH:CLI:CAL:MOSL 1,(5)
See Also	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?

:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:RCLient

Description	This command removes the given Client from the FlexE Calendar Configuration Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:RCLient <wsp><Client ID>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID to be removed
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:RCL 123
See Also	SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:CONFig? SOURce:DATA:TELecom:FETHernet:CLient:CALENDAR:ACLient

TA-xxx (Transceiver System)

:FETCh:DATA:TELecom:SLT:TA:INFO?	
Description	This query displays the transceiver system infomation for the loopback tool. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > TA
Syntax	:FETCh:DATA:TELecom:SLT:TA:INFO? <wsp><TaReqInfo>
Parameter(s)	TaReqInfo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. ICOUNT: Transceiver system insertion counter ID: Transceiver System Id SN: Transceiver System serial number REV: Transceiver System revision BATT: Transceiver System battery level OMICOUNT: Optical module insertion counter TA_STATE: Transceiver system state PORT_ID: Transceiver system port id
Response Syntax	<TaRespInfo>
Response(s)	TaRespInfo: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the requested transceiver system information
Example(s)	FETC:DATA:TEL:SLT:TA:INFO? SN
See Also	FETCh:DATA:TELecom:TA:INFO?

:FETCh:DATA:TELEcom:TA:INFO?

Description	This query displays the transceiver system infomation. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > TA/TA4
Syntax	:FETCh:DATA:TELEcom:TA:INFO? <wsp> <TaReqInfo>
Parameter(s)	TaReqInfo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. ICOUNT: Transceiver system insertion counter ID: Transceiver System Id SN: Transceiver System serial number REV: Transceiver System revision BATT: Transceiver System battery level OMICOUNT: Optical module insertion counter TA_STATE: Transceiver system state PORT_ID: Transceiver system port id
Response Syntax	<TaRespInfo>
Response(s)	TaRespInfo: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the requested transceiver system information
Example(s)	FETC:DATA:TEL:TA:INFO? SN
See Also	FETCh:DATA:TELEcom:TA:INFO

:FETCh:DATA:TELecom:TA:SYNC:INFO?	
Description	This query displays the transceiver system sync information. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > TA-SYNC
Syntax	:FETCh:DATA:TELecom:TA:SYNC:INFO? <wsp><TaSyncReqInfo>
Parameter(s)	TaSyncReqInfo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. ICOUNT: Transceiver system insertion counter ID: Transceiver System Id SN: Transceiver System serial number REV: Transceiver System revision TA_STATE: Transceiver system state PORT_ID: Transceiver system port id
Response Syntax	<TaSyncRespInfo>
Response(s)	TaSyncRespInfo: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the requested transceiver system sync information
Example(s)	FETC:DATA:TEL:TA:SYNC:INFO? SN
See Also	FETCh:DATA:TELecom:TA:INFO

FlexO-OTUCn

:FETCh:DATA:TELecom:FOTN:GROup:STATus?	
Description	This query returns the status of FlexO group. Navigation Path: Setup > Test Configurator > FlexO > FlexO Status
Syntax	:FETCh:DATA:TELecom:FOTN:GROup:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns FlexO group status
Example(s)	FETC:DATA:TEL:FOTN:GRO:STAT?
See Also	FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory? FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds? FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?

:SOURce:DATA:TELecom:FOTN:CLient:CONFig?	
Description	This query returns FlexO clients tributary slots assignment as a string. The returned value contains a coma separated list of client Ids, odu types, list of occupied tributary slots in the ODUCn. Navigation: Setup > Test Configurator > FlexO - OTUCn > OTUCn
Syntax	:SOURce:DATA:TELecom:FOTN:CLient:CONFig?
Response Syntax	<FOTN Client Configuration>
Response(s)	FOTN Client Configuration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns FlexO clients tributary slots assignment as a string. The returned value contains a coma separated list of client IDs, ODU types, and the list of occupied tributary slots in the ODUCn. Ex: Using a single OduFlex occupying all ODUc's (1,OduFlex,(0,1,2,3,4,5,6,7,8,9,10,11,12,,Ää13,14,15,16,17,18,19,20,21,22,23,24,25,,Ää26,27,28,29,30,31,32,33,34,35,36,37,38,,Ää39,40,41,42,43,44,45,46,47,48,49,50,51,,Ää52,53,54,55,56,57,58,59,60,61,62,63,64,,Ää65,66,67,68,69,70,71,72,73,74,75,76,77,,Ää78,79))
Example(s)	SOUR:DATA:TEL:FOTN:CLI:CONF?
See Also	SOURce:DATA:TELecom:FOTN:CLient:MCID

:SOURce:DATA:TELEcom:FOTN:CLient:MCID

Description	This command replaces an existing Client ID by the new given one Navigation Path: Setup > Test Configurator > FlexO-OTUCn > OTUCn > Edit ID
Syntax	:SOURce:DATA:TELEcom:FOTN:CLient:MCID <wsp> <Old Client ID>, <New Client ID>
Parameter(s)	Old Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID to be replaced New Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID used to replace with
Response Syntax	<FOTN Client Configuration>
Example(s)	SOUR:DATA:TEL:FOTN:CLI:MCID 1,23
See Also	SOURce:DATA:TELEcom:FOTN:CLient:CONFig?

:SOURce:DATA:TELecom:FOTN:GROup:IDentifier	
Description	This command sets the group ID associated with the FlexO Group. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > FlexO-OTUCn > FlexO > FlexO Group ID
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:IDentifier <wsp><GroupID>
Parameter(s)	GroupID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the group ID associated with the FlexO group. Value Range: 0 to 1048575
Response Syntax	<FOTN Client Configuration>
Example(s)	SOUR:DATA:TEL:FOTN:GRO:ID 18 SOUR:DATA:TEL:FOTN:GRO:ID? Returns: 18
See Also	SOURce:DATA:TELecom:FOTN:GROup:IDentifier?

:SOURce:DATA:TELecom:FOTN:GROup:IDentifier?

Description	This query returns the group ID associated with a FlexO group. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > FlexO-OTUCn > FlexO > FlexO Group ID
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:IDentifier?
Response Syntax	<GroupID>
Response(s)	GroupID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the group ID associated with the FlexO group.
Example(s)	SOUR:DATA:TEL:FOTN:GRO:ID 18 SOUR:DATA:TEL:FOTN:GRO:ID? Returns: 18
See Also	SOURce:DATA:TELecom:FOTN:GROup:IDentifier

Modify Wavelength

:SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:NUMBer?	
Description	This query returns the tunable wavelength channel number value. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Number
Syntax	:SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:NUMBer?
Response Syntax	<ChannelNumber>
Response(s)	ChannelNumber: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable channel number of wavelength.
Example(s)	SENS:DATA:TEL:OPT:TUN:CHAN:NUMB?
See Also	SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:SPACing?

:SENSe:DATA:TELeom:OPTical:TUNable:CHANnel:SPACing?

Description	This query returns the tunable wavelength channel spacing value. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Spacing (GHz)
Syntax	:SENSe:DATA:TELeom:OPTical:TUNable:CHANnel:SPACing?
Response Syntax	<ChannelSpacing>
Response(s)	ChannelSpacing: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the tunable channel spacing of wavelength.
Example(s)	SENS:DATA:TEL:OPT:TUN:CHAN:SPAC?
See Also	SENSe:DATA:TELeom:OPTical:TUNable:CHANnel:NUMBer?

:SENSe:DATA:TELeom:OPTical:TUNable:FREQuency?	
Description	This query returns the tunable frequency value. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Frequency (THz)
Syntax	:SENSe:DATA:TELeom:OPTical:TUNable:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable frequency value.
Example(s)	SENS:DATA:TEL:OPT:TUN:FREQ?
See Also	SENSe:DATA:TELeom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:ITU?

Description	Returns the ITU Grid Value for the current registered wavelength on the device. Add this number to the channel number to get the ITU compliant channel number. At *RST condition, this value is device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Channel Number
Syntax	:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:ITU?
Response Syntax	<ITU Grid Value>
Response(s)	ITU Grid Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the ITU Grid Value
Example(s)	SOUR:DATA:TEL:OPT:SLT:TUN:ITU?
See Also	SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:NUMBer?

:SOURce:DATA:TELEcom:OPTical:TUNable:ITU?	
Description	Returns the ITU Grid Value for the current registered wavelength on the device. Add this number to the channel number to get the ITU compliant channel number. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Number
Syntax	:SOURce:DATA:TELEcom:OPTical:TUNable:ITU?
Response Syntax	<ITU Grid Value>
Response(s)	ITU Grid Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the ITU Grid Value
Example(s)	SOUR:DATA:TEL:OPT:TUN:ITU?
See Also	SENSe:DATA:TELEcom:OPTical:TUNable:CHANnel:NUMBer?

:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength

Description	This command sets the wavelength for tunable transceivers. At *RST condition, this value is device-dependent. Navigation Path: Setup > Test Configurator >Interface > Physical Interface >Modify Wavelength - Wavelength (nm)
Syntax	:SOURce:DATA:TELEcom:OPTical:TUNable:WAVelength <wsp><Wavelength>
Parameter(s)	Wavelength: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Modify the tunable wavelength value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<ITU Grid Value>
Example(s)	SOUR:DATA:TEL:OPT:TUN:WAV 1548.38
See Also	SENS:DATA:TEL:SDT:THR 50.0 SENS:DATA:TEL:SDT:THR? Returns 50.0

:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?	
Description	This query returns the tunable wavelength value. At *RST condition, this value is device-dependent.. Navigation Path: Setup > Test Configurator >Interface > Physical Interface >Modify Wavelength - Wavelength (nm)
Syntax	:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?[<wsp><Wavelength>]
Parameter(s)	Wavelength: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current wavelength value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable wavelength value.
Example(s)	SOUR:DATA:TEL:OPT:TUN:WAV SOUR:DATA:TEL:OPT:TUN:WAV? Returns 0
See Also	SENS:DATA:TEL:SDT:THR 50.0 SENS:DATA:TEL:SDT:THR? Returns 50.0

EMIX Pop-Up

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:DEF

ault

Description	This command restore the EMIX configuration to default settings for selected service/stream. This command is not associated with *RST condition. Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Restore Default Navigation path: Setup > Test Configurator > EtherBERT > Ethernet Frame-EMIX > Restore Default
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:DEFault <wsp><Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service/stream number 1 or 10 Select 1 for EtherBERT
Response Syntax	<Profile>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:DEF 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity	
Description	This command sets the quantity of EMIX frame sizes for selected service/stream. At *RST condition, this value is device-dependent. Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Quantity Navigation path: Setup > Test Configurator > EtherBert> Ethernet Frame-EMIX > Quantity
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity <wsp><Service>, <Quantity>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service/stream number 1 or 10 Select 1 for EtherBERT Quantity: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the quantity of frames
Response Syntax	<Profile>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN 1, 5
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:SIZE

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity?

Description	This query returns the quantity of EMIX frame sizes for selected service/stream. At *RST condition, this value is device-dependent. Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Quantity Navigation path: Setup > Test Configurator > EtherBERT> Ethernet Frame-EMIX > Quantity
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity? <wsp> <Service>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service/stream number 1 or 10 Select 1 for EtherBERT
Response Syntax	<Quantity>
Response(s)	Quantity: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Quantity of EMIX frames for selected service.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN 1, 5 SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN? 1 Returns 5
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:SIZE?

:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:SIZE	
Description	This command sets the frame size for selected service/stream. At *RST condition, this value is device-dependent. Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > EMIX Frame Sizes Navigation path: Setup > Test Configurator > EtherBERT > Ethernet Frame-EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:SIZE <wsp><Service>, <EMIX frame>, <Size>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service/stream number 1 or 10. Select 1 for EtherBERT. EMIX frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EMIX frame. Size: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the frame size. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE 1, 1, 64
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:FRAMe:EMIX:QUANtity

:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:SIZE?	
Description	This query returns the frame sizes for selected service/stream. This query is not associated with *RST condition. Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > EMIX Frame Sizes Navigation path: Setup > Test Configurator > EtherBERT> Ethernet Frame-EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHeRnet:STReam:FRAMe:EMIX:SIZE? <wsp><Service>, <EMIX Frame>,[<Size>]
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service/sream number 1 or 10. Select 1 for EtherBERT EMIX Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the EMIX Frame. Size: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the EMIX Frame size. This parameter is optional. If no token is specified, the current EMIX frame size value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value
Response Syntax	<Frame Size>

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE?E?	
Response(s)	Frame Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the frame size of EMIX frames for selected services/stream
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE 1, 1, 64 SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE? 1, 1 Returns 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity?

Clients - Path OAM

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle

Description	This command enables/disables the FlexE Path OAM Expected Client Signal Type. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB OFF SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB? Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?	
Description	This query returns the enable/dsable status of FlexE Path OAM Expected Client Signal Type. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB OFF SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB? Returns: 0

:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPe xted	
Description	This command sets the FlexE Path OAM Expected Client Signal type. At *RST condition, this value is set to ETHERNET. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:EXPe _x ted <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the expected type CSTYPE_CHNL: Character Not Loaded CSTYPE_ETHernet: ETHERNET CSTYPE_SDH: SDH CSTYPE_CPRI: CPRI CSTYPE_FC: FC
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP CSTYPE_SDH SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP? Returns CSTYPE_SDH

:SENSe:DATA:TELecom:FETHerNet:POAM:CSIGnal:TYPE:EXPe xted?	
Description	This query returns the FlexE Path OAM Expected Client Signal type. At *RST condition, this value is set to ETHERNET. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHerNet:POAM:CSIGnal:TYPE:EXPe xted?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected type: CSTYPE_CHNL: Character Not Loaded CSTYPE_ETHerNet: ETHERNET CSTYPE_SDH: SDH CSTYPE_CPRI: CPRI CSTYPE_FC: FC
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP CSTYPE_SDH SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP? Returns CSTYPE_SDH

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted

Description	This command sets the FlexE Path OAM connectivity verification DAPI expected message. At *RST condition, this value is set to EXFO DAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected DAPI
Syntax	:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP EXFO DAPI SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP? Returns: EXFO DAPI

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted?	
Description	This query returns the FlexE Path OAM connectivity verification DAPI expected message. At *RST condition, this value is set to EXFO DAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected DAPI
Syntax	:SENSe:DATA:TELeom:FETHernet:POAM:CVER:DAPI:EXPexted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP EXFO DAPI SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP? Returns: EXFO DAPI

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABLE

Description	This command enables/disables the FlexE Path OAM connectivity verification Expected SAPI/DAPI. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - SAPI/DAPI Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB OFF SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB? Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle?	
Description	This query returns enable/disable status of the FlexE Path OAM connectivity verification SAPI/DAPI Expected. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - SAPI/DAPI Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB OFF SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB? Returns: 0

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:SAPI:EXPexte
d

Description	This command sets the FlexE Path OAM connectivity verification SAPI expectedmessage. At *RST condition, this value is set to EXFO SAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected SAPI
Syntax	:SENSe:DATA:TELeom:FETHernet:POAM:CVER:SAPI:EXPexted <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP EXFO SAPI SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP? Returns: EXFO SAPI

:SENSe:DATA:TELeom:FETHernet:POAM:CVER:SAPI:EXPexted?	
Description	This query returns the FlexE Path OAM connectivity verification SAPI expected message. At *RST condition, this value is set to EXFO SAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected SAPI
Syntax	:SENSe:DATA:TELeom:FETHernet:POAM:CVER:SAPI:EXPexted?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the expected message.
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP EXFO SAPI SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP? Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction	
Description	This command enables/disables the FlexE Path OAM continuity check function At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - CC Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF OFF SOUR:DATA:TEL:FETH:POAM:BOAM:CCF? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction?	
Description	This query returns the FlexE Path OAM continuity check function status At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - CC Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF OFF SOUR:DATA:TEL:FETH:POAM:BOAM:CCF? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod

Description	This command sets the FlexE Path OAM Basic OAM period At *RST condition, this value is set to _64K. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod <wsp><Period>
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the period: _16K: 16K _32K: 32K _512K: 512K _64K: 64K
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:PER _32K SOUR:DATA:TEL:FETH:POAM:BOAM:PER? Returns: _32K

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:PERiod?	
Description	This query returns the FlexE Path OAM Basic OAM period At *RST condition, this value is _64K. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - Period
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the period: _16K: 16K _32K: 32K _512K: 512K _64K: 64K
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:PER _32K SOUR:DATA:TEL:FETH:POAM:BOAM:PER? Returns: _32K

:SOURce:DATA:TELEcom:FETHernet:POAM:CLient:IDentifier	
Description	Selects the Client Identifier associated with FlexE Path OAM. At *RST condition, this value is set to 1 (Default Client ID). Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM on Client ID
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:CLient:IDentifier <wsp> <Client ID>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects Client Identifier.
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CLI:ID 2 SOUR:DATA:TEL:FETH:POAM:CLI:ID? Returns 2

:SOURce:DATA:TELecom:FETHernet:POAM:CLient:IDentifier?	
Description	Returns the Client Identifier selected for FlexE Path OAM. At *RST condition, this value is set to 1 (Default Client ID). Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM functions on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CLient:IDentifier?
Response Syntax	<Client ID>
Response(s)	Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Client Identifier.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CLI:ID 2 SOUR:DATA:TEL:FETH:POAM:CLI:ID? Returns 2

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABLE

Description	This command enables/disables the FlexE Path OAM Client Signal type function. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - CS Type Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABLE?	
Description	This query returns the FlexE Path OAM Client Signal type function status At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - CS Type Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod	
Description	This command sets the FlexE Path OAM Client Signal type period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod <wsp> <Period>
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER? Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod?	
Description	This query returns the FlexE Path OAM Client Signal Type period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER? Returns _1S

**:SOURce:DATA:TELecom:FETHerNet:POAM:CSIGnal:TYPE:GEN
erated**

Description	This command sets the FlexE Path OAM generated Client Signal type At *RST condition, this value is set to ETHERNET. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Type
Syntax	:SOURce:DATA:TELecom:FETHerNet:POAM:CSIGnal:TYPE:GENerated <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type CSTYPE_CHNL: Character Not Loaded CSTYPE_ETHERnet: ETHERNET CSTYPE_SDH: SDH CSTYPE_CPRI: CPRI CSTYPE_FC: FC
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN CSTYPE_SDH SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN? Returns CSTYPE_SDH

**:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GEN
erated?**

Description	This query returns the FlexE Path OAM generated Client Signal type At *RST condition, this value is set to ETHERNET Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Type
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type: CSTYPE_CharacterNotLoaded: Chanel Not Loaded CSTYPE_ETHernet: ETHERNET CSTYPE_SDH: SDH CSTYPE_CPRI: CPRI CSTYPE_FC: FC
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN CSTYPE_SDH SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN? Returns CSTYPE_SDH

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration

Description	This command sets the FlexE Path OAM connectivity verification DAPI generated message. At *RST condition, this value is set to EXFO DAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - DAPI Generated
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN EXFO DAPI SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN? Returns: EXFO DAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration?	
Description	This query returns the FlexE Path OAM connectivity verification DAPI generated message. At *RST condition, this value is set to EXFO DAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Dapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the generated message.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN EXFO DAPI SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN? Returns: EXFO DAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABLE

Description	This command enables/disables the FlexE Path OAM connectivity verification function At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - CV Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB OFF SOUR:DATA:TEL:FETH:POAM:CVER:ENAB? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABLE?	
Description	This query returns the FlexE Path OAM conectivity verification function status At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - CV Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB OFF SOUR:DATA:TEL:FETH:POAM:CVER:ENAB? Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration	
Description	This command sets the FlexE Path OAM connectivity verification SAPI generated message. At *RST condition, this value is set to EXFO SAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Sapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN EXFO SAPI SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN? Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration?	
Description	This query returns the FlexE Path OAM connectivity verification SAPI generated message. At *RST condition, this value is set to EXFO SAPI. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Sapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the generated message.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN EXFO SAPI SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN? Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod

Description	This command sets the FlexE Path OAM Connectivity Verification period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod <wsp><Period>
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER? Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod?	
Description	This query returns the FlexE Path OAM Connectivity Verification period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER? Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement 2DM Function. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - 2DM Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:RESPOnder:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:ENABle?	
Description	This query returns the enable/disable status of the FlexE Path OAM Delay Measurement 2DM Function. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - 2DM Function
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:DELay:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: ON: Enabled OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:RESPonder:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:CONTInuous:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement Continuous transmission mode. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Continuous
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:CONTInuous:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:CONT:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:CONTInuous:ENABle?	
Description	This query returns enable/disable status of the FlexE Path OAM Delay Measurement Continuous mode. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Continuous
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:CONTInuous:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: ON: Enabled OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement Message Transmission status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - EX Enable
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:TX:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABle

:SOURce:DATA:TELEcom:FETHernet:POAM:DELa:y:TX:ENABle?	
Description	This query returns the FlexE Path OAM Delay Measurement Message Transmission status. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - TX Enable
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:DELa:y:TX:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: ON: Enabled OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:ENAB ON SOUR:DATA:TEL:FETH:POAM:DEL:TX:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:DELa:y:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:FRAMe:COUNT	
Description	This command sets the FlexE Path OAM Delay Measurement frame count. At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Count
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:FRAMe:COUNT <wsp><Count>
Parameter(s)	Count: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the number of frame count. Choices are 1 through 1000. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN 5 SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN? Returns 5
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:FRAMe:COUNT?	
Description	This query returns the FlexE Path OAM Delay Measurement frame count, At *RST condition, this value is set to 10. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Count
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:FRAMe:COUNT?[<wsp> <Count>]
Parameter(s)	Count: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current burst count is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Delay Measurement frame count
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN 5 SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN? Returns 5
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod?

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod

Description	This command sets the FlexE Path OAM Delay Measurement period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod <wsp><Period>
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER? Returns _1S
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod

:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod?	
Description	Thisquery returns the FlexE Path OAM Delay Measurement period At *RST condition, this value is set to _10S. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELaY:TX:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the period: _1Second: 1 Second _10Second: 10 Seconds _1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER _1S SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER? Returns _1S
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod?

:SOURce:DATA:TELecom:FETHernet:POAM:GStatus

Description	This command enables/disables the global FlexE Path OAM. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:GStatus <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:GST ON SOUR:DATA:TEL:FETH:POAM:GST? Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:GStatus?	
Description	This query returns the global FlexE Path OAM At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:GStatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:GST ON SOUR:DATA:TEL:FETH:POAM:GST? Returns: 1

**:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABl
e**

Description	This command enables/disables the FlexE Path OAM Responder function. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > OAM Responder
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB ON SOUR:DATA:TEL:FETH:POAM:RESP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABLE

:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABLE?	
Description	This Query returns the FlexE Path OAM Responder function status At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > OAM Responder
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB ON SOUR:DATA:TEL:FETH:POAM:RESP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABLE?

:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle

Description	This command enables/disables the FlexE Path OAM verdict status. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Global Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB ON SOUR:DATA:TEL:FETH:POAM:VERD:ENAB? Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABLE?	
Description	This Query returns FlexE Path OAM verdict status At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Global Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB ON SOUR:DATA:TEL:FETH:POAM:VERD:ENAB? Returns: 1

Remote Interface Discovery

:SOURce:DATA:TELEcom:ETHernet:REMote:SCANning:STATus	
Description	This command enables/disables the interface discovery process. At *RST condition, this value is set to false. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Discover
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:SCANning:STATus <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the discovery process ON: Discovery is on OFF: Discovery is off
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:STAT ON SOUR:DATA:TEL:ETH:REM:SCAN:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:SCAN:TYPE

:SOURce:DATA:TELEcom:ETHernet:REMote:SCANning:STATus?	
Description	This command returns the scanning status of discovery. At *RST condition, this value is set to false. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Discover
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:SCANning:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the scanning status of discovery. 1: Discovery is on 0: Discovery is off
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:STAT ON SOUR:DATA:TEL:ETH:REM:SCAN:STAT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet?

:SOURce:DATA:TELecom:ETHernet:REMOte:SIGNature:APPLy

Description	This command apply signature to selected stream. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Apply To Stream
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:SIGNature:APPLy <wsp> <Stream ID> , <Signature ID>
Parameter(s)	Stream ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Stream ID : Apply signature configuration on selected stream ID Signature ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Signature ID: Apply selected signature configuration.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:APPL
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COpy:APPLy

:SOURce:DATA:TELEcom:ETHernet:REMote:SIGNature:DETail? ?	
Description	This command returns the details for the selected singature. Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Remote Interfaces
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:SIGNature:DETail? <wsp><Number>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the signature ID
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the details of signature.
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:DET? 1 Returns: "Signature Id = 1, MAC Address = 00:03:01:F7:97:7E, IP Address= 10.10.151.126, E-VLAN Id = 2, S-VLAN Id= 2, C-VALN Id = 2"
See Also	FETCh:DATA:TELEcom:LOGGer:LIST?

:SOURce:DATA:TELecom:ETHernet:REMOte:SIGNature:LIST?

Description	This command returns list of signatures which are discovered from the scanning. Navigation Path: Setup > Test Configurator > Streams -> MAC/IP/UDP -> Discovery > Remote Interfaces
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:SIGNature:LIST?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the list of signatures.
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:LIST?
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

Modify Wavelength (Config/Info) (DCO)

:SOURce:DATA:TELeom:OPTical:DCO:TUNable:AUSR	
Description	This command is used to apply user configuration. Navigation Path: Setup > Test Configuration > Interface > Physical Interface > Modify Wavelength > Apply.
Syntax	:SOURce:DATA:TELeom:OPTical:DCO:TUNable:AUSR
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:OPT:DCO:TUN:AUSR

:SOURce:DATA:TELecom:OPTical:DCO:TUNable:CHANnel:FRE Quency

Description	This command sets the Channel Frequency value. Navigation Path: Setup > Test Configuration > Interface > Physical Interface > Modify Wavelength > Channel Frequency (THz)
Syntax	:SOURce:DATA:TELecom:OPTical:DCO:TUNable:CHANnel:FREQuency <wsp> <Channel Frequency>
Parameter(s)	Channel Frequency: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Change the channel frequency value. MAXimum: Largest supported value. MINimum: Smallest supported value.
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:OPT:DCO:TUN:CHAN:FREQ 193.7

:SOURce:DATA:TELecom:OPTical:DCO:TUNable:CHANnel:FREQuency?	
Description	This query returns the Channel Frequency value. Navigation Path: Setup > Test Configuration > Interface > Physical Interface > Modify Wavelength > Channel Frequency (THz)
Syntax	:SOURce:DATA:TELecom:OPTical:DCO:TUNable:CHANnel:FREQuency?[<wsp><Channel Frquency>]
Parameter(s)	Channel Frequency: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current channel frequency value is returned. MAXimum: Largest supported value. MINimum: Smallest supported value.
Response Syntax	<Channel Frequency>
Response(s)	Channel Frequency: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This query returns the Channel Frequency value.

Link Degradе Signaling Thresholds

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate

Description	This command sets the value of Link Degraded Signaling Activate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Link Degraded Signaling Activate Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<SkewDelayValue>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT 7723 SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT? Returns: 7723
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTERval

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?	
Description	This query returns the value of Link Degraded Signaling Activate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?[<wsp><Token>]
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Activate Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT 7230 SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT? Returns: 7230
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate

Description	This command sets the value of Link Degraded Signaling Deactivate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Deactivate Threshold (Symbols)
Syntax	<code>:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate <wsp><Threshold></code>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Link Degraded Signaling Deactivate Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<code><Threshold></code>
Example(s)	<code>SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 7723</code> <code>SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC?</code> Returns: 7723
See Also	<code>SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate</code>

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?	
Description	This query returns the value of Link Degraded Signaling Deactivate Threshold. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?[<wsp><Token>]
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Deactivate Threshold is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 800 SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC? Returns: 800
See Also	SOURce:DATA:TELecom:ETHeRnet:FEC:DSER:THReshold:ACTivate?

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTErval

Description	This command sets the value of Link Degraded Signaling Interval. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Interval(CW)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTErval <wsp> <Interval>
Parameter(s)	Interval: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets value of Link Degraded Signaling Interval. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT 123
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABLE

:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INterval?	
Description	This query returns the value of Link Degraded Signaling Interval. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Interval(CW)
Syntax	:SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:THReshold:INterval?[<wsp><Interval>]
Parameter(s)	Interval: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Interval is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT 123 SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT? Returns: 123
See Also	SOURce:DATA:TELEcom:FIBer:LINK:DSIGnaling:ENABle?

1588 PTP (GM)

:SOURce:DATA:TELEcom:PACKetsync:PTP:CLOCK:TYPE

Description	This command sets the 1588 PTP GM Clock Type. At *RST condition this value is set to Two-step. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > PTP - Clock Type.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:CLOCK:TYPE <wsp><ClockType>
Parameter(s)	ClockType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Clock Type. ONESTEP: One-step TWOSTEPS: Two-step
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE TWOSTEPS SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE? Returns: TWOSTEPS

:SOURce:DATA:TELeom:PACKetsync:PTP:CLOCk:TYPE?	
Description	This query returns the 1588 PTP GM Clock Type. At *RST condition this value is set to Two-step. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > PTP - Clock Type.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:CLOCk:TYPE?
Response Syntax	<ClockType>
Response(s)	ClockType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Clock Type.
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE TWOSTEPS SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE? Returns: TWOSTEPS

**:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCura
cy**

Description	This command sets the 1588 PTP GM Clock Accuracy. At *RST condition this value is set to UNKNOWN. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Accuracy.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy <wsp> <ClockAccuracy>

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CACCura
cy

Parameter(s)	ClockAccuracy: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Clock Accuracy. ACCURATEABOVE10000000000NS: Accurate to > 10 s (31) ACCURATEWITHIN10000000000NS: Accurate within 10 s (30) ACCURATEWITHIN1000000000NS: Accurate within 1 s (2F) ACCURATEWITHIN100000000NS: Accurate within 100 ms (2D) ACCURATEWITHIN10000000NS: Accurate within 10 ms (2B) ACCURATEWITHIN1000000NS: Accurate within 1 ms (29) ACCURATEWITHIN100000NS: Accurate within 100 us (27) ACCURATEWITHIN10000NS: Accurate within 10 us (25) ACCURATEWITHIN1000NS: Accurate within 1 us (23) ACCURATEWITHIN100NS: Accurate within 100 ns (21) ACCURATEWITHIN250000000NS: Accurate within 250 ms (2E) ACCURATEWITHIN25000000NS: Accurate within 25 ms (2C) ACCURATEWITHIN250000NS: Accurate within 2.5 ms (2A) ACCURATEWITHIN25000NS: Accurate within 250 us (28) ACCURATEWITHIN2500NS: Accurate within 25 us (26) ACCURATEWITHIN250NS: Accurate within 2.5 us (24) ACCURATEWITHIN25NS: Accurate within 250 ns (22) ACCURATEWITHIN25NS: Accurate within 25 ns (20) UNKNOWN: Unknown (FE)
Response Syntax	<ClockType>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CACC ACCURATEWITHIN100NS SOUR:DATA:TEL:PACK:PTP:CLOC:CACC? Returns: ACCURATEWITHIN100NS

**:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCura
cy?**

Description	This query returns the 1588 PTP GM Clock Accuracy. At *RST condition this value is set to UNKNOWN. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Accuracy.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy?

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CACCura
cy?

Response Syntax	<ClockAccuracy>
Response(s)	ClockAccuracy: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Clock Accuracy. ACCURATEABOVE1000000000NS: Accurate to > 10 s (31) ACCURATEWITHIN1000000000NS: Accurate within 10 s (30) ACCURATEWITHIN100000000NS: Accurate within 1 s (2F) ACCURATEWITHIN10000000NS: Accurate within 100 ms (2D) ACCURATEWITHIN1000000NS: Accurate within 10 ms (2B) ACCURATEWITHIN100000NS: Accurate within 1 ms (29) ACCURATEWITHIN10000NS: Accurate within 100 us (27) ACCURATEWITHIN1000NS: Accurate within 10 us (25) ACCURATEWITHIN100NS: Accurate within 1 us (23) ACCURATEWITHIN10NS: Accurate within 100 ns (21) ACCURATEWITHIN250000000NS: Accurate within 250 ms (2E) ACCURATEWITHIN2500000NS: Accurate within 25 ms (2C) ACCURATEWITHIN250000NS: Accurate within 2.5 ms (2A) ACCURATEWITHIN25000NS: Accurate within 250 us (28) ACCURATEWITHIN2500NS: Accurate within 25 us (26) ACCURATEWITHIN250NS: Accurate within 2.5 us (24) ACCURATEWITHIN25NS: Accurate within 250 ns (22) ACCURATEWITHIN25NS: Accurate within 25 ns (20) UNKNOWN: Unknown (FE)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CACC ACCURATEWITHIN100NS SOUR:DATA:TEL:PACK:PTP:CLOC:CACC? Returns: ACCURATEWITHIN100NS

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode

Description	This command sets the 1588 PTP GM User Defined Clock Class code. At *RST condition this value is set to 248. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class (User Defined code).
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode <wsp><ClockClassCode>
Parameter(s)	ClockClassCode: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Clock Class code. Range from 0-255. DEFAult: Default value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<ClockAccuracy>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC 44 SOUR:DATA:TEL:PACK:PTP:GMCL:CCC? Returns 44

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCCode?	
Description	This query returns the 1588 PTP GM User Defined Clock Class code. At *RST condition this value is set to 248. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class (User Defined code).
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:CCCode?[<wsp><ClockClassCode>]
Parameter(s)	ClockClassCode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Clock Class code value is returned. DEFault: Default value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<ClockClassCode>
Response(s)	ClockClassCode: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Clock Class code.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC 44 SOUR:DATA:TEL:PACK:PTP:GMCL:CCC? Returns 44

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:CCLass

Description	This command sets the 1588 PTP GM Clock Class. At *RST condition this value is set to QLSECEEC1ST3EEC2248. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:CCLass <wsp> <ClockClass>
Parameter(s)	ClockClass: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Clock Class. QLCODEUSERDEFINED: User Defined QLPRCPRS135: QL-PRC/PRS (135) QLPRCPRS140: QL-PRC/PRS (140) QLPRCPRS6: QL-PRC/PRS (6) QLPRCPRS7: QL-PRC/PRS (7) QLSECEEC1ST3EEC2165: QL-SEC/EEC1/ST3/EEC2 (165) QLSECEEC1ST3EEC2248: QL-SEC/EEC1/ST3/EEC2 (248) QLSECEEC1ST3EEC2255: QL-SEC/EEC1/ST3/EEC2 (255) QLSSUAST2: QL-SSU-A/ST2 (150) QLSSUBST3E: QL-SSU-B/ST3E (160)
Response Syntax	<ClockClassCode>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCL QLPRCPRS135 SOUR:DATA:TEL:PACK:PTP:CLOC:CCL? Returns: QLPRCPRS135

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:CCLass?	
Description	This query returns the 1588 PTP GM Clock Class. At *RST condition this value is set to QLSECEEC1ST3EEC2248. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:CCLass?
Response Syntax	<ClockClass>
Response(s)	ClockClass: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Clock Class. QLCODEUSERDEFINED: User Defined QLPRCPRS135: QL-PRC/PRS (135) QLPRCPRS140: QL-PRC/PRS (140) QLPRCPRS6: QL-PRC/PRS (6) QLPRCPRS7: QL-PRC/PRS (7) QLSECEEC1ST3EEC2165: QL-SEC/EEC1/ST3/EEC2 (165) QLSECEEC1ST3EEC2248: QL-SEC/EEC1/ST3/EEC2 (248) QLSECEEC1ST3EEC2255: QL-SEC/EEC1/ST3/EEC2 (255) QLSSUAST2: QL-SSU-A/ST2 (150) QLSSUBST3E: QL-SSU-B/ST3E (160)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCL QLPRCPRS135 SOUR:DATA:TEL:PACK:PTP:CLOC:CCL? Returns: QLPRCPRS135

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CIDentity?

Description	This query returns the 1588 PTP GM Clock Identity. At *RST condition this value is set to 0x000000FFFE000111. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Identity.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CIDentity?
Response Syntax	<ClockIdentity>
Response(s)	ClockIdentity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. SOUR:DATA:TEL:PACK:PTP:CLOC:CID? Returns: 0x000000FFFE000111

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable	
Description	This command enables/disables the Frequency Traceable. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Frequency Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable <wsp> <FrequencyTraceable>
Parameter(s)	FrequencyTraceable: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: OFF: Disables ON: Enables
Response Syntax	<ClockIdentity>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR ON SOUR:DATA:TEL:PACK:PTP:GMCL:FTR? Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable?	
Description	This query returns the Frequency Traceable. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Frequency Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable?
Response Syntax	<FrequencyTraceable>
Response(s)	FrequencyTraceable: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR ON SOUR:DATA:TEL:PACK:PTP:GMCL:FTR? Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE	
Description	This command sets the 1588 PTP GM Clock Priority 1. At *RST condition this value is set to 128. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 1.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE <wsp><Priority1>
Parameter(s)	Priority1: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Priority 1. Range from 0-255. DEFault: Default value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<FrequencyTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE 222 SOUR:DATA:TEL:PACK:PTP:GMCL:PONE? Return: 222

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:PONE?

Description	This query returns the 1588 PTP GM Clock Priority 1. At *RST condition this value is set to 128. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 1.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:PONE?[<wsp><Priority1>]
Parameter(s)	Priority1: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Priority 1 value is returned. DEFault: Default value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Priority1>
Response(s)	Priority1: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Priorty 1.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE 222 SOUR:DATA:TEL:PACK:PTP:GMCL:PONE? Return: 222

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:PTWO	
Description	This command sets the 1588 PTP GM Clock Priority 2. At *RST condition this value is set to 128. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 2.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:PTWO <wsp><Priority2>
Parameter(s)	Priority2: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Priority 2. Range from 0-255. DEFault: Default value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Priority1>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PTWO 142 SOUR:DATA:TEL:PACK:PTP:GMCL:PTWO? Return: 142

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PTWO?

Description	This query returns the 1588 PTP GM Clock Priority 2. At *RST condition this value is set to 128. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 2.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:PTWO?[<wsp><Priority2>]
Parameter(s)	Priority2: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Priority 2 value is returned. DEFault: Default value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Priority2>
Response(s)	Priority2: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Priorty 2.

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMOVED	
Description	This command sets the 1588 PTP GM Clock Steps Removed. At *RST condition this value is set to 0. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Steps Removed.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMOVED <wsp><StepsRemoved>
Parameter(s)	StepsRemoved: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Steps Removed. Range from 0-100. DEFAult: Default value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Priority2>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM 5 SOUR:DATA:TEL:PACK:PTP:GMCL:SREM? Return: 5

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMOVED?	
Description	This query returns the 1588 PTP GM Clock Steps Removed. At *RST condition this value is set to 0. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Steps Removed.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMOVED?[<wsp><StepsRemoved>]
Parameter(s)	StepsRemoved: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Steps Removed value is returned. DEFault: Default value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<StepsRemoved>
Response(s)	StepsRemoved: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Steps Removed number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM 5 SOUR:DATA:TEL:PACK:PTP:GMCL:SREM? Return: 5

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:TIMescale	
Description	This command enables/disables the Timescale. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - PTP Timescale.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:TIMescale <wsp><Timescale>
Parameter(s)	Timescale: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: OFF: Disables ON: Enables
Response Syntax	<StepsRemoved>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM ON SOUR:DATA:TEL:PACK:PTP:GMCL:TIM? Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale?

Description	This query returns the Timescale. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - PTP Timescale.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale?
Response Syntax	<Timescale>
Response(s)	Timescale: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM ON SOUR:DATA:TEL:PACK:PTP:GMCL:TIM? Returns: 1

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:TSource	
Description	This command sets the 1588 PTP GM Clock Time Source. At *RST condition this value is set to INTERNALOSCILLATOR. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Source.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:TSource <wsp><TimeSource>
Parameter(s)	TimeSource: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Time Source. ATOMICCLOCK: Atomic Clock (10) GPS: GPS (20) HANDSET: Hand Set (60) INTERNALOSCILLATOR: Internal Oscillator (A0) NTP: NTP (50) OTHER: Other (90) PTP: PTP (40) TERRESTRIALRADIO: Terrestrial Radio (30)
Response Syntax	<Timescale>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC OTHER SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC? Returns: OTHER

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSource?	
Description	This query returns the 1588 PTP GM Clock Time Source. At *RST condition this value is set to INTERNALOSCILLATOR. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Source.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSource?
Response Syntax	<TimeSource>
Response(s)	TimeSource: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Time Source. ATOMICCLOCK: Atomic Clock (10) GPS: GPS (20) HANDSET: Hand Set (60) INTERNALOSCILLATOR: Internal Oscillator (A0) NTP: NTP (50) OTHER: Other (90) PTP: PTP (40) TERRESTRIALRADIO: Terrestrial Radio (30)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC OTHER SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC? Returns: OTHER

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable	
Description	This command enables/disables the Time Traceable. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable <wsp><TimeTraceable>
Parameter(s)	TimeTraceable: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: OFF: Disables ON: Enables
Response Syntax	<TimeSource>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR ON SOUR:DATA:TEL:PACK:PTP:GMCL:TTR? Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable?	
Description	This query returns the Time Traceable. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable?
Response Syntax	<TimeTraceable>
Response(s)	TimeTraceable: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR ON SOUR:DATA:TEL:PACK:PTP:GMCL:TTR? Returns: 1

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset	
Description	This command sets the 1588 PTP GM Clock UTC Offset. At *RST condition this value is set to 37. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - UTC Offset.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset <wsp> <UTCOffset>
Parameter(s)	UTCOffset: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the UTC Offset. Range from -1000 - 1000. DEFault: Default value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<TimeTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC 22 SOUR:DATA:TEL:PACK:PTP:GMCL:UTC? Return: 22

:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:UTCOffset:VALid

Description	This command enables/disables the Current UTC Offset Valid. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Current UTC Offset Valid.
Syntax	:SOURce:DATA:TELeom:PACKetsync:PTP:GMCLock:UTCOffset:VALid <wsp> <UTCOffsetValid>
Parameter(s)	UTCOffsetValid: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables: OFF: Disables ON: Enables
Response Syntax	<TimeTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL ON SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL? Returns: 1

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset:VALid?	
Description	This query returns the Current UTC Offset Valid. At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Current UTC Offset Valid.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset:VALid?
Response Syntax	<UTCOffsetValid>
Response(s)	UTCOffsetValid: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL ON SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL? Returns: 1

:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset?

Description	This query returns the 1588 PTP GM Clock UTC Offset. At *RST condition this value is set to 37. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - UTC Offset.
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:GMCLock:UTCOffset?[<wsp> <UTCOffset>]
Parameter(s)	UTCOffset: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current UTC Offset value is returned. DEFault: Default value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<UTCOffset>
Response(s)	UTCOffset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the UTC Offset number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC 22 SOUR:DATA:TEL:PACK:PTP:GMCL:UTC? Return: 22

LLDP Neighbor Popup

:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CID?	
Description	This query returns the Chassis ID. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour >Chassis ID
Syntax	:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CID?
Response Syntax	<Chassis ID>
Response(s)	Chassis ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Chassis ID.
Example(s)	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CID?
See Also	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CIDSubtype?

:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CIDSubtype?

Description	This query returns the Chassis ID Subtype. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour >Chassis ID (Subtype)
Syntax	:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CIDSubtype?
Response Syntax	<Chassis ID Subtype>
Response(s)	Chassis ID Subtype: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Chassis ID Subtype.
Example(s)	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CIDSubtype?
See Also	LINStrument:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:CID?

:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:MADdRes?	
Description	This query returns the management Address At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > Management Address.
Syntax	:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:MADdRes?
Response Syntax	<Management Address>
Response(s)	Management Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Management Address i.e. IPv4/IPv6
Example(s)	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:MADdRes?
See Also	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:PVID?

:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PDEscription?

Description	This query returns the Port Description At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour >Port Description
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PDEscription?
Response Syntax	<Port Description>
Response(s)	Port Description: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Port Description
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PDEscription?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:SDEscription?

:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:PID?	
Description	This query returns the Port ID At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour >Port ID.
Syntax	:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:PID?
Response Syntax	<Port ID>
Response(s)	Port ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Port ID
Example(s)	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:PID?
See Also	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:PIDSubtype?

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PIDSubtype?

Description	This query returns the Port ID Subtype. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour >Port ID (Subtype)
Syntax	:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PIDSubtype?
Response Syntax	<Port ID Subtype>
Response(s)	Port ID Subtype: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Port ID Subtype.
Example(s)	FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PIDSubtype?
See Also	LINStrument:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:PID?

:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PVID?	
Description	This query returns the Port VLAN ID At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > Port VLAN ID
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PVID?
Response Syntax	<Port VLAN ID>
Response(s)	Port VLAN ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Port VLAN ID.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PVID?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PID?

:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:SDEscription?

Description	This query returns the System Description. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > System Description.
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:LLDP:SDEscription?
Response Syntax	<System Description>
Response(s)	System Description: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the System Description.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:SDEscription?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LLDP:PDEscription?

:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SNAME?	
Description	This query returns the System Name At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > System Name.
Syntax	:FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SNAME?
Response Syntax	<System Name>
Response(s)	System Name: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the System Name
Example(s)	FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SNAME?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:LLDP:SDEscription?

:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:TTLexpired?

Description	This query returns the TTL Status. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > TTL Expired
Syntax	:FETCh:DATA:TELeom:ETHernet:PORT:LLDP:TTLexpired?
Response Syntax	<TTL Expired>
Response(s)	TTL Expired: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the TTL Status.
Example(s)	FETCh:DATA:TELeom:ETHernet:PORT:LLDP:TTLexpired?
See Also	FETC:DATA:TEL:AERR:HIST?

:SOURce:DATA:TELecom:ETHernet:PORT:LLDP:LMAC	
Description	This command sets the Listening MAC address. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > Listening MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LLDP:LMAC <wsp><Listening MAC Address>
Parameter(s)	Listening MAC Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Listening MAC Address
Response Syntax	<TTL Expired>
Example(s)	SOUR:DATA:TEL:ETH:PORT:LLDP:LMAC 01:1B:19:00:00:00 SOUR:DATA:TEL:ETH:PORT:LLDP:LMAC? Returns: 01:1B:19:00:00:00
See Also	LINStrument:SOURce:DATA:TELecom:ETHernet:PORT:LLDP:LMAC?

:SOURce:DATA:TELeom:ETHernet:PORT:LLDP:LMAC?

Description	This query returns the Listening MAC Address At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Setup > Test Configurator > Interface > LINK > LLDP Neighbour > Listening MAC Address
Syntax	:SOURce:DATA:TELeom:ETHernet:PORT:LLDP:LMAC?
Response Syntax	<Listening MAC Address>
Response(s)	Listening MAC Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Listening MAC Address
Example(s)	SOUR:DATA:TEL:ETH:PORT:LLDP:LMAC 01:1B:19:00:00:00 SOUR:DATA:TEL:ETH:PORT:LLDP:LMAC? Returns: 01:1B:19:00:00:00
See Also	SOURce:DATA:TELeom:ETHernet:PORT:LLDP:LMAC

Timer

:SOURce:DATA:TELEcom:TIMer	
Description	This command enables/disables the test timer. Start time should be enabled and the start date and time should have been expired. At *RST condition, this value is set to OFF. Navigation Path: Setup > Timer > Arm
Syntax	:SOURce:DATA:TELEcom:TIMer <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<value>
Example(s)	SOUR:DATA:TEL:TIM ON SOUR:DATA:TEL:TIM? Returns: 1
See Also	SOURce:DATA:TELEcom:TIMer? SOURce:DATA:TELEcom:TIMer:STOP

:SOURce:DATA:TELEcom:TIMer:CONFig

Description	This command automatically starts and/or stops a test case at a given time or for a specific duration. At *RST condition, this value is set to 15 minutes. Navigation Path: Setup > Timer > Duration ON/OFF Navigation Path: Setup > Timer > Start Time ON/OFF Navigation Path: Setup > Timer > Stop Time ON/OFF
Syntax	:SOURce:DATA:TELEcom:TIMer:CONFig <wsp> <Time>, <Status>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. STARtttime: The time the test will automatically start. STOPtime: The time the test will automatically stop. DURation: The test duration based on the test delayed start time. Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<value>
Example(s)	SOUR:DATA:TEL:TIM:CONF STAR,ON SOUR:DATA:TEL:TIM:CONF? STAR Returns: 1
See Also	SOURce:DATA:TELEcom:TIMer:CONFig SOURce:DATA:TELEcom:TIMer:START?

:SOURce:DATA:TELecom:TIMer:CONFig?	
Description	This query returns the status of the test start time, stop time, or duration. At *RST condition, this value is set to 15 minutes. Navigation Path: Setup > Timer > Duration ON/OFF Navigation Path: Setup > Timer > Start Time ON/OFF Navigation Path: Setup > Timer > Stop Time ON/OFF
Syntax	:SOURce:DATA:TELecom:TIMer:CONFig? <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. STARttime: The time the created test will automatically start. STOptime: The time the test will automatically stop. DURation: The test duration based on the test delayed start time.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of selected parameter (STARttime, STOptime, DURation).
Example(s)	SOUR:DATA:TEL:TIM:CONF STAR,ON SOUR:DATA:TEL:TIM:CONF? STAR Returns: 1
See Also	SOURce:DATA:TELecom:TIMer:CONFig SOURce:DATA:TELecom:TIMer:START?

:SOURce:DATA:TELEcom:TIMer:DURation

Description	This command allows to select the test duration based on the test start time. At *RST condition, this value is set to 15 minutes. Navigation Path: Setup > Timer > Duration ON Navigation Path: Setup > Timer > Duration > Duration
Syntax	:SOURce:DATA:TELEcom:TIMer:DURation <wsp> <TIME>
Parameter(s)	TIME: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Allows to select the test duration based on the test delayed start time. 15M: 15 minutes 1H: 1 hour 2H: 2 hours 4H: 4 hours 6H: 6 hours 12H: 12 hours 24H: 24 hours 72H: 72 hours 7D: 7 days UDEFined: Undefined
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TIM:DUR 15M SOUR:DATA:TEL:TIM:DUR? Returns: 15M
See Also	SOURce:DATA:TELEcom:TIMer:DURation?

:SOURce:DATA:TELecom:TIMer:DURation?	
Description	This query returns the test duration based on the test delayed start time. At *RST condition, this value is set to 15 minutes. Navigation Path: Setup > Timer > Duration ON Navigation Path: Setup > Timer > Duration > Duration
Syntax	:SOURce:DATA:TELecom:TIMer:DURation?
Response Syntax	<TIME>
Response(s)	TIME: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test duration based on the test delayed start time. 15M, the test duration is 15 minutes. 1H, the test duration is 1 hour. 2H, the test duration is 2 hours. 6H, the test duration is 6 hours. 12H, the test duration is 12 hours. 24H, the test duration is 24 hours. 72H, the test duration is 72 hours. 7D, the test duration is 7D. UDEFined, the test duration is undefined.
Example(s)	SOUR:DATA:TEL:TIM:DUR 15M SOUR:DATA:TEL:TIM:DUR? Returns: 15M
See Also	SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELEcom:TIMer:STARt

Description	This command sets the date and time the test will automatically start. Start time should be enabled. At *RST condition, this value is set to the current date. Navigation Path: Setup > Timer > Start Time > Date
Syntax	:SOURce:DATA:TELEcom:TIMer:STARt <wsp><DateTime>
Parameter(s)	DateTime: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the date and time the test will automatically start.
Response Syntax	<TIME>
Example(s)	SOUR:DATA:TEL:TIM:STAR "7/15/2011 20:30:35" SOUR:DATA:TEL:TIM:STAR? Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELEcom:TIMer:CONFig?

:SOURce:DATA:TELecom:TIMer:STARt?	
Description	This query returns the date and time the test will automatically start.Start time should be enabled. At *RST condition, this value is set to the current date and time. Navigation Path: Setup > Timer > Start Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STARt?
Response Syntax	<DateTime>
Response(s)	DateTime: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the date and time the test will automatically start.
Example(s)	SOUR:DATA:TEL:TIM:STAR "7/15/2011 20:30:35" SOUR:DATA:TEL:TIM:STAR? Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:CONFig

:SOURce:DATA:TELecom:TIMer:STOP

Description	This command sets the date and time the test will automatically stop. Stop time should be enabled. At *RST condition, this value is set to the current date and time. Navigation Path: Setup > Timer > Stop Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STOP <wsp> <DateTime>
Parameter(s)	DateTime: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Select the specific date the test will automatically stop.
Response Syntax	<DateTime>
Example(s)	SOUR:DATA:TEL:TIM:STOP "7/15/2011 20:30:35" SOUR:DATA:TEL:TIM:STOP? Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:STOP? SOURce:DATA:TELecom:TIMer:START?

:SOURce:DATA:TELEcom:TIMer:STOP?	
Description	This query returns the specific date and time the test will automatically stop. Stop time should be enabled. At *RST condition, this value is set to the current date and time. Navigation Path: Setup > Timer > Stop Time > Date
Syntax	:SOURce:DATA:TELEcom:TIMer:STOP?
Response Syntax	<DateTime>
Response(s)	DateTime: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the date and time the test will automatically stop.
Example(s)	SOUR:DATA:TEL:TIM:STOP "7/15/2011 20:30:35" SOUR:DATA:TEL:TIM:STOP? Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELEcom:TIMer:STOP SOURce:DATA:TELEcom:TIMer:STArT

:SOURce:DATA:TELEcom:TIMer:UDEFinEd

Description	This command allows you to select the test duration, when User Defined has been selected for duration. Choices are from 1 second to 30 days. At *RST condition, this value is set to 1 second. Navigation Path: Setup > Timer > Duration ON Navigation Path: Setup > Timer > Duration > User Defined Duration
Syntax	:SOURce:DATA:TELEcom:TIMer:UDEFinEd <wsp><Utime>
Parameter(s)	Utime: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Selects the test duration, when User Defined is selected for duration.
Response Syntax	<DateTime>
Example(s)	SOUR:DATA:TEL:TIM:UDEF 00d:00:15:00 SOUR:DATA:TEL:TIM:UDEF? Returns: 00d:00:15:00
See Also	SOURce:DATA:TELEcom:TIMer:UDEF? SOURce:DATA:TELEcom:TIMer:DURation

:SOURce:DATA:TELecom:TIMer:UDEFinEd?	
Description	This query returns the test duration, when User Defined has been selected for duration. At *RST condition, this value is set to 1 second. Navigation Path: Setup > Timer > Duration ON Navigation Path: Setup > Timer > Duration > User Defined Duration
Syntax	:SOURce:DATA:TELecom:TIMer:UDEFinEd?
Response Syntax	<User Defined Duration>
Response(s)	User Defined Duration: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the test duration when User Defined has been selected for duration.
Example(s)	SOUR:DATA:TEL:TIM:UDEF 00d:00:15:00 SOUR:DATA:TEL:TIM:UDEF? Returns: 00d:00:15:00
See Also	SOURce:DATA:TELecom:TIMer:UDEFinEd SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELEcom:TIMer?

Description	This query returns the status of the test timer. At *RST condition, this value is set to OFF. Navigation Path: Setup > Timer > Arm
Syntax	:SOURce:DATA:TELEcom:TIMer?
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the timer. 1, timer is enabled. 0, timer is disabled.
Example(s)	SOUR:DATA:TEL:TIM ON SOUR:DATA:TEL:TIM? Returns: 1
See Also	SOURce:DATA:TELEcom:TIMer SOURce:DATA:TELEcom:TIMer:STOP

System - General

:SOURce:DATA:TELEcom:FACTory:RESTore:DEFault	
Description	This command restores the factory default settings. Navigation Path: Setup > System > Factory Default > Restore Default.
Syntax	:SOURce:DATA:TELEcom:FACTory:RESTore:DEFault
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:FACT:REST:DEF
See Also	SOURce:DATA:TELEcom:RESTore:DEFault

:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle

Description	This command enables/disables the status of the 'Transceiver Transaction Fault' notification(s). When enabled, transaction faults seen on any transceiver involved in the test will be shown in the notification area. When disabled, no notifications are shown. At *RST condition, this value is set to OFF. Navigation Path: Setup > System > Notification Control > Transceiver Transaction Fault
Syntax	:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables transceiver transaction fault notifications OFF: Disables transceiver transaction fault notifications
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:TRAN:TFA:ENAB ON SOUR:DATA:TEL:TRAN:TFA:ENAB? Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABLE?	
Description	This query returns the 'Transceiver Transaction Fault' notification(s) enabled/disabled status. When enabled, transaction faults seen on any transceiver involved in the test will be shown in the notification area. When disabled, no notifications are shown. At *RST condition, this value is set to OFF. Navigation Path: Setup > System > Notification Control > Transceiver Transaction Fault
Syntax	:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of the 'Transceiver Transaction Fault' notification(s)
Example(s)	SOUR:DATA:TEL:TRAN:TFA:ENAB ON SOUR:DATA:TEL:TRAN:TFA:ENAB? Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle

Description	This command enables/disables the status of the 'Transceiver Validation' notification(s). At *RST condition, this value is set to OFF. Navigation Path: Setup > System > Notification Control > Transceiver Validation
Syntax	:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables transceiver validation notifications OFF: Disables transceiver validation notifications
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAN:VAL:ENAB ON SOUR:DATA:TEL:TRAN:VAL:ENAB? Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle?	
Description	This query returns the 'Transceiver Validation' notification(s) enabled/disabled status. At *RST condition, this value is set to OFF. Navigation Path: Setup > System > Notification Control > Transceiver Validation
Syntax	:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of the 'Transceiver Validation' notification(s)
Example(s)	SOUR:DATA:TEL:TRAN:VAL:ENAB ON SOUR:DATA:TEL:TRAN:VAL:ENAB? Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

System - GNSS

:FETCh:DATA:TELeom:GNSS:ANTenna:ALTitude?

Description	This query returns the antenna Altitude coordinate for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Altitude (m)
Syntax	:FETCh:DATA:TELeom:GNSS:ANTenna:ALTitude?
Response Syntax	<Altitude (m)>
Response(s)	Altitude (m): The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Altitude coordinate.
Example(s)	FETC:DATA:TEL:GNSS:ANT:ALT?
See Also	FETCh:DATA:TELeom:GNSS:ANTenna:LATitude?

:FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?	
Description	This query returns the antenna Latitude coordinate for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Latitude (deg)
Syntax	:FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?
Response Syntax	<Latitude (deg)>
Response(s)	Latitude (deg): The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Latitude coordinate.
Example(s)	FETCh:DATA:TEL:GNSS:ANT:LAT?
See Also	FETCh:DATA:TELecom:GNSS:ANTenna:ALTitude?

:FETCh:DATA:TELEcom:GNSS:ANTenna:LONGitude?

Description	This query returns the antenna Longitude coordinate for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Longitude (deg)
Syntax	:FETCh:DATA:TELEcom:GNSS:ANTenna:LONGitude?
Response Syntax	<Longitude (deg)>
Response(s)	Longitude (deg): The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Longitude coordinate.
Example(s)	FETC:DATA:TEL:GNSS:ANT:LONG?
See Also	FETCh:DATA:TELEcom:GNSS:ANTenna:LATitude?

:FETCh:DATA:TELeom:GNSS:DISCipline:PROGress?

Description	This query returns the Discipline Oscillator progress. Navigation Path: Setup > System > GNSS > Holdover > Tuning Status
Syntax	:FETCh:DATA:TELeom:GNSS:DISCipline:PROGress?
Response Syntax	<Progress>
Response(s)	Progress: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns disciplining oscillator progress
Example(s)	FETC:DATA:TEL:GNSS:DISC:PROG?

:FETCh:DATA:TELecom:GNSS:DISCIpline:STATus?

Description	This query returns the Disciplineline Oscillator status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Holdover > Tuning Status
Syntax	:FETCh:DATA:TELecom:GNSS:DISCIpline:STATus?
Response Syntax	<Disciplining>
Response(s)	Disciplining: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current Disciplining status: DISABLED: DISABLED INPROGRESS: IN PROGRESS COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:DISC:STAT?

:FETCh:DATA:TELecom:GNSS:HISTogram?	
Description	This query returns the Histogram Satellite information for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Histogram
Syntax	:FETCh:DATA:TELecom:GNSS:HISTogram?
Response Syntax	<Histogram>
Response(s)	Histogram: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Histogram information in following format: Satellite ID:Rx Power:Used/NotUsed
Example(s)	FETC:DATA:TEL:GNSS:HIST? Returns: "G10:25:Used; E10:40:NotUsed"
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:HOLDOver:ETIMe?

Description	This query returns the Holdover Elapsed time. Navigation Path: Setup > System > GNSS > Holdover > Elapsed Time
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDOver:ETIMe?
Response Syntax	<Elapsed Time>
Response(s)	Elapsed Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the holdover elapsed time
Example(s)	FETC:DATA:TEL:GNSS:HOLD:ETIM?

:FETCh:DATA:TELecom:GNSS:HOLDOver:RTIMe?	
Description	This query returns the Holdover Remaining time. Navigation Path: Setup > System > GNSS > Holdover > Estimated Holdover Remaining Time
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDOver:RTIMe?
Response Syntax	<Remaining Time>
Response(s)	Remaining Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the holdover remaining time.
Example(s)	FETC:DATA:TEL:GNSS:HOLD:RTIM?

:FETCh:DATA:TELecom:GNSS:HOLDOver:STATus?

Description	This query returns the Holdover status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Holdover > Status
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDOver:STATus?
Response Syntax	<Holdover>
Response(s)	Holdover: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current Holdover status: DISABLED: DISABLED INPROGRESS: IN PROGRESS COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:HOLD:STAT?

:FETCh:DATA:TELecom:GNSS:JAMMING?	
Description	This query returns the Jamming status for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - Jamming
Syntax	:FETCh:DATA:TELecom:GNSS:JAMMING?
Response Syntax	<Jamming>
Response(s)	Jamming: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Jamming. OK: OK WARNING: Warning CRITICAL: Critical UNKNOWN: Unknown
Example(s)	FETC:DATA:TEL:GNSS:JAMM?
See Also	FETCh:DATA:TELecom:GNSS:TLOCK?

:FETCh:DATA:TELeom:GNSS:PIN?

Description	This query returns the GNSS Power In Status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - Power In Status
Syntax	:FETCh:DATA:TELeom:GNSS:PIN?
Response Syntax	<Power In>
Response(s)	Power In: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the power in status: 1: On 0: Off
Example(s)	FETC:DATA:TEL:GNSS:PIN?
See Also	FETCh:DATA:TELeom:GNSS:STAT?

:FETCh:DATA:TELEcom:GNSS:SATellite?	
Description	This query returns the Number of Satellite used for GNSS At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - # of Sat used
Syntax	:FETCh:DATA:TELEcom:GNSS:SATellite?
Response Syntax	<# of Sat used>
Response(s)	# of Sat used: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of used Satellite.
Example(s)	FETC:DATA:TEL:GNSS:SAT?
See Also	FETCh:DATA:TELEcom:GNSS?

:FETCh:DATA:TELEcom:GNSS:STATus?

Description	This query returns the GNSS Status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - Status
Syntax	:FETCh:DATA:TELEcom:GNSS:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Status. ACQUIRING: Acquiring SURVEYIN: Survey-In FIXEDMODE: Fixed Mode
Example(s)	FETC:DATA:TEL:GNSS:STAT?
See Also	FETCh:DATA:TELEcom:GNSS?

:FETCh:DATA:TELecom:GNSS:TLOCK?	
Description	This query returns the Time Lock status for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - Time Lock
Syntax	:FETCh:DATA:TELecom:GNSS:TLOCK?
Response Syntax	<Time Lock>
Response(s)	Time Lock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current Time Lock. LOCKED: Locked NOTLOCKED: Not Locked
Example(s)	FETC:DATA:TEL:GNSS:TLOC?
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELEcom:GNSS:UTC?

Description	This query returns the UTC Variant for GNSS. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - UTC Variant
Syntax	:FETCh:DATA:TELEcom:GNSS:UTC?
Response Syntax	<UTC Variant>
Response(s)	UTC Variant: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the UTC Variant. USNO: Unites States Naval Observatory SU: Soviet Union NTSC: National Time Service Center EUROPE: Europe PENDING: Pending
Example(s)	FETC:DATA:TEL:GNSS:UTC?
See Also	FETCh:DATA:TELEcom:GNSS?

:FETCh:DATA:TELecom:GNSS:WUP:RTIME?	
Description	This query returns the Warm UP Remaining time. Navigation Path: Setup > System > GNSS > Holdover > Oscillator Warm-UP
Syntax	:FETCh:DATA:TELecom:GNSS:WUP:RTIME?
Response Syntax	<Remaining Time>
Response(s)	Remaining Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Oscillator Warm-UP remaining time.
Example(s)	FETC:DATA:TEL:GNSS:WUP:RTIM?

:FETCh:DATA:TELecom:GNSS:WUP:STATus?

Description	This query returns the Warm Up status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Holdover > Oscillator Warm-UP
Syntax	:FETCh:DATA:TELecom:GNSS:WUP:STATus?
Response Syntax	<Warm Up>
Response(s)	Warm Up: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current Warm Up status: DISABLED: DISABLED INPROGRESS: IN PROGRESS COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:WUP:STAT?

:FETCh:DATA:TELecom:GNSS?	
Description	This query returns the global GNSS status. At *RST condition, this value is device dependent. Navigation Path: Setup > System > GNSS > Statuses - GNSS
Syntax	:FETCh:DATA:TELecom:GNSS?
Response Syntax	<GNSS>
Response(s)	GNSS: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current GNSS: NOTREADY: Not Ready READY: Ready
Example(s)	FETC:DATA:TEL:GNSS?
See Also	FETCh:DATA:TELecom:GNSS:STAT?

:SOURce:DATA:TELeom:GNSS:ANTenna:ALTitude

Description	This command sets the Antenna Latitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Altitude (m)
Syntax	:SOURce:DATA:TELeom:GNSS:ANTenna:ALTitude <wsp><Altitude>
Parameter(s)	Altitude: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Altitude Value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<GNSS>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:ALT 50.01 SOUR:DATA:TEL:GNSS:ANT:ALT? Returns: 50.01
See Also	SOURce:DATA:TELeom:GNSS:ANTenna:ALTitude?

:SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude?

Description	This query returns the Antenna Altitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Altitude (m)
Syntax	:SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude?[<wsp><Altitude>]
Parameter(s)	Altitude: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Antenna Altitude is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Altitude>
Response(s)	Altitude: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Altitude. MAXimum is used to retrieve the instruments greatest supported value for Antenna Altitude. MINimum is used to retrieve the instruments smallest supported value for Antenna Altitude.
Example(s)	SOUR:DATA:TEL:GNSS:ANT:ALT 50.01 SOUR:DATA:TEL:GNSS:ANT:ALT? Returns: 50.01
See Also	SOURce:DATA:TELEcom:GNSS:ANTenna:ALTitude

:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude

Description	This command sets the Antenna Latitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Latitude (deg)
Syntax	:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude <wsp><Latitude>
Parameter(s)	Latitude: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Latitude Value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Altitude>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LAT 50.1005 SOUR:DATA:TEL:GNSS:ANT:LAT? Returns: 50.1005
See Also	SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude?

:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude?

Description	This query returns the Antenna Latitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Latitude (deg)
Syntax	:SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude?[<wsp><Latitude>]
Parameter(s)	Latitude: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Antenna Latitude is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Latitude>
Response(s)	Latitude: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Latitude. MAXimum is used to retrieve the instruments greatest supported value for Antenna Latitude MINimum is used to retrieve the instruments smallest supported value for Antenna Latitude
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LAT 50.10001 SOUR:DATA:TEL:GNSS:ANT:LAT? Returns: 50.10001
See Also	SOURce:DATA:TELEcom:GNSS:ANTenna:LATitude

:SOURce:DATA:TELeom:GNSS:ANTenna:LONGitude

Description	This command sets the Antenna Longitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Longitude (deg)
Syntax	:SOURce:DATA:TELeom:GNSS:ANTenna:LONGitude <wsp> <Longitude>
Parameter(s)	Longitude: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Longitude Value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Latitude>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LONG 50.10001 SOUR:DATA:TEL:GNSS:ANT:LONG? Returns: 50.10001
See Also	SOURce:DATA:TELeom:GNSS:ANTenna:LONGitude?

:SOURce:DATA:TELEcom:GNSS:ANTenna:LONGitude?	
Description	This query returns the Antenna Longitude for GNSS. At *RST condition, this value is set to 0. Navigation Path: Setup > System > GNSS > Antenna Coordinates > Longitude (deg)
Syntax	:SOURce:DATA:TELEcom:GNSS:ANTenna:LONGitude?[<wsp><Longitude>]
Parameter(s)	Longitude: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Antenna Longitude is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Longitude>
Response(s)	Longitude: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Longitude. MAXimum is used to retrieve the instruments greatest supported value for Antenna Longitude MINimum is used to retrieve the instruments smallest supported value for Antenna Longitude
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LONG 50.10001 SOUR:DATA:TEL:GNSS:ANT:LONG? Returns: 50.10001
See Also	SOURce:DATA:TELEcom:GNSS:ANTenna:LONGitude

:SOURce:DATA:TELEcom:GNSS:CDElay

Description	This command sets the Cable Delay for GNSS. At *RST condition, this value is set to 25 ns Navigation Path: Setup > System > GNSS > Cable Delay(ns)
Syntax	:SOURce:DATA:TELEcom:GNSS:CDElay <wsp><Cable Delay>
Parameter(s)	Cable Delay: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Cable Delay Value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Longitude>
Example(s)	SOUR:DATA:TEL:GNSS:CDEL 50 SOUR:DATA:TEL:GNSS:CDEL? Returns: 50
See Also	SOURce:DATA:TELEcom:GNSS:CDElay?

:SOURce:DATA:TELEcom:GNSS:CDElay?	
Description	This query returns the Cable Delay for GNSS. At *RST condition, this value is set to 25 ns Navigation Path: Setup > System > GNSS > Cable Delay(ns)
Syntax	:SOURce:DATA:TELEcom:GNSS:CDElay?[<wsp><Cable Delay>]
Parameter(s)	Cable Delay: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Cable Delay is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Cable Delay>
Response(s)	Cable Delay: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Cable Delay. MAXimum is used to retrieve the instruments greatest supported value for Cable Delay MINimum is used to retrieve the instruments smallest supported value for Cable Delay
Example(s)	SOUR:DATA:TEL:GNSS:CDEL 50 SOUR:DATA:TEL:GNSS:CDEL? Returns: 50
See Also	SOURce:DATA:TELEcom:GNSS:CDElay

:SOURce:DATA:TELecom:GNSS:CONStellation

Description	The command sets the Constellation for GNSS at the input port. At *RST condition, this value is set to GPS, Galileo, BeiDou. Navigation Path: Setup > System > GNSS > Constellation.
Syntax	:SOURce:DATA:TELecom:GNSS:CONStellation <wsp><Constellation>
Parameter(s)	Constellation: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Constellation. GPS_GALILEO_BEIDOU: GPS, Galileo, BeiDou GPS_GALILEO_GLONASS: GPS, Galileo, GLONASS GPS_GALILEO: GPS, Galileo GPS_BEIDOU: GPS, BeiDou GPS_GLONASS: GPS, GLONASS GALILEO_BEIDOU: Galileo, BeiDou GALILEO_GLONASS: Galileo, GLONASS BEIDOU_GLONASS: BeiDou, GLONASS GPS: GPS GALILEO: Galileo BEIDOU: BeiDou GLONASS: GLONASS
Response Syntax	<Cable Delay>
Example(s)	SOUR:DATA:TEL:GNSS:CONS GPS SOUR:DATA:TEL:GNSS:CONS? Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:CONStellation?

:SOURce:DATA:TELecom:GNSS:CONStellation?	
Description	This query returns the Constellation for GNSS at the input port. At *RST condition, this value is set to GPS, Galileo, BeiDou. Navigation Path: Setup > System > GNSS > Constellation.
Syntax	:SOURce:DATA:TELecom:GNSS:CONStellation?
Response Syntax	<Constellation>
Response(s)	Constellation: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Constellation. GPS_GALILEO_BEIDOU: GPS, Galileo, BeiDou GPS_GALILEO_GLONASS: GPS, Galileo, GLONASS GPS_GALILEO: GPS, Galileo GPS_BEIDOU: GPS, BeiDou GPS_GLONASS: GPS, GLONASS GALILEO_BEIDOU: Galileo, BeiDou GALILEO_GLONASS: Galileo, GLONASS BEIDOU_GLONASS: BeiDou, GLONASS GPS: GPS GALILEO: Galileo BEIDOU: BeiDou GLONASS: GLONASS
Example(s)	SOUR:DATA:TEL:GNSS:CONS GPS SOUR:DATA:TEL:GNSS:CONS? Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:CONStellation

:SOURce:DATA:TELecom:GNSS:DACC

Description	This command sets the Desired Accuracy for GNSS at the input port. At *RST condition, this value is set to Very High. Navigation Path: Setup > System > GNSS > Desired Accuracy.
Syntax	:SOURce:DATA:TELecom:GNSS:DACC <wsp> <Desired Accuracy>
Parameter(s)	Desired Accuracy: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Desired Accuracy. VERYHIGH: Very High HIGH: High MEDIUM: Medium LOW: Low
Response Syntax	<Constellation>
Example(s)	SOUR:DATA:TEL:GNSS:DACC Low SOUR:DATA:TEL:GNSS:DACC? Returns: DACC
See Also	SOURce:DATA:TELecom:GNSS:DACC?

:SOURce:DATA:TELecom:GNSS:DACC?	
Description	This query returns the Desired Accuracy for GNSS at the input port. At *RST condition, this value is set to Very High. Navigation Path: Setup > System > GNSS > Desired Accuracy.
Syntax	:SOURce:DATA:TELecom:GNSS:DACC?
Response Syntax	<Desired Accuracy>
Response(s)	Desired Accuracy: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Desired Accuracy. VERYHIGH: Very High HIGH: High MEDIUM: Medium LOW: Low
Example(s)	SOUR:DATA:TEL:GNSS:DACC HIGH SOUR:DATA:TEL:GNSS:DACC? Returns: HIGH
See Also	SOURce:DATA:TELecom:GNSS:DACC

:SOURce:DATA:TELEcom:GNSS:DISCipline:ENABLE

Description	This command enables/disables Discipline Oscillator At *RST, this value is set to Enabled. Navigation Path: Setup > System > GNSS > Holdover > Discipline Oscillator
Syntax	:SOURce:DATA:TELEcom:GNSS:DISCipline:ENABLE <wsp><Disciplining>
Parameter(s)	Disciplining: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Desired Accuracy>
Example(s)	SOUR:DATA:TEL:GNSS:DISC:ENAB ON SOUR:DATA:TEL:GNSS:DISC:ENAB? Returns 1
See Also	SOURce:DATA:TELEcom:GNSS:DISCipline:ENABLE?

:SOURce:DATA:TELeom:GNSS:DISCIpline:ENABle?	
Description	This query returns the Discipline Oscillator enable/disable status. At *RST condition, this value is set to OFF. Navigation Path: Setup > System > GNSS > Holdover > Discipline Oscillator
Syntax	:SOURce:DATA:TELeom:GNSS:DISCIpline:ENABle?
Response Syntax	<Disciplining>
Response(s)	Disciplining: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:DISC:ENAB ON SOUR:DATA:TEL:GNSS:DISC:ENAB? Returns: 1
See Also	SOURce:DATA:TELeom:GNSS:DISCIpline:ENABle

:SOURce:DATA:TELeom:GNSS:HOLDover:ENABle

Description	This command enables/disables Holdover At *RST, this value is set to Disabled. Navigation Path: Setup > System > GNSS > Holdover > Holdover
Syntax	:SOURce:DATA:TELeom:GNSS:HOLDover:ENABle <wsp><Holdover>
Parameter(s)	Holdover: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Disciplining>
Example(s)	SOUR:DATA:TEL:GNSS:HOLD:ENAB ON SOUR:DATA:TEL:GNSS:HOLD:ENAB? Returns 1
See Also	SOURce:DATA:TELeom:GNSS:HOLDover:ENABle?

:SOURce:DATA:TELecom:GNSS:HOLDover:ENABLE?	
Description	This query returns the Holdover enable/disable status At *RST condition, this value is set to OFF. Navigation Path: Setup > System > GNSS > Holdover > Holdover
Syntax	:SOURce:DATA:TELecom:GNSS:HOLDover:ENABLE?
Response Syntax	<Holdover>
Response(s)	Holdover: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:HOLD:ENAB ON SOUR:DATA:TEL:GNSS:HOLD:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:GNSS:HOLD:ENABle

:SOURce:DATA:TELEcom:GNSS:PMODE

Description	This command sets the Position Mode for GNSS at the input port. At *RST condition, this value is set to Survey-In. Navigation Path: Setup > System > GNSS > Position Mode.
Syntax	:SOURce:DATA:TELEcom:GNSS:PMODE <wsp><Position Mode>
Parameter(s)	Position Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Position Mode. SURVEYIN: Survey-In MANUAL: Manual
Response Syntax	<Holdover>
Example(s)	SOUR:DATA:TEL:GNSS:PMOD MANUAL SOUR:DATA:TEL:GNSS:PMOD? Returns: MANUAL
See Also	SOUR:DATA:TEL:GNSS:PMOD?

:SOURce:DATA:TELecom:GNSS:PMODE?	
Description	This query returns the Position mode for GNSS at the input port. At *RST condition, this value is set to Survey-In. Navigation Path: Setup > System > GNSS > Positiom Mode.
Syntax	:SOURce:DATA:TELecom:GNSS:PMODE?
Response Syntax	<Position Mode>
Response(s)	Position Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Position Mode. SURVEYIN: Survey-In MANUAL: Manual
Example(s)	SOUR:DATA:TEL:GNSS:PMOD MANUAL SOUR:DATA:TEL:GNSS:PMOD? Returns: MANUAL
See Also	SOURce:DATA:TELecom:GNSS:PMODE

:SOURce:DATA:TELEcom:GNSS:QZSS:ENABLE

Description	This command enables/disables QZSS. At *RST, this value is set to Enabled. Navigation Path: Setup > System > GNSS > QZSS
Syntax	:SOURce:DATA:TELEcom:GNSS:QZSS:ENABLE <wsp> <QZSS>
Parameter(s)	QZSS: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Position Mode>
Example(s)	SOUR:DATA:TEL:GNSS:QZSS:ENAB ON SOUR:DATA:TEL:GNSS:QZSS:ENAB? Returns 1
See Also	SOURce:DATA:TELEcom:GNSS:QZSS:ENABLE?

:SOURce:DATA:TELecom:GNSS:QZSS:ENABLE?	
Description	This query returns the QZSS value of the GNSS. At *RST condition, this value is set to OFF. Navigation Path: Setup > System > GNSS > QZSS
Syntax	:SOURce:DATA:TELecom:GNSS:QZSS:ENABLE?
Response Syntax	<QZSS>
Response(s)	QZSS: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:QZSS:ENAB ON SOUR:DATA:TEL:GNSS:QZSS:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:GNSS:QZSS:ENABle

:SOURce:DATA:TELecom:GNSS:REStart

Description	This command performs a cold start of the GNSS receiver. Navigation Path: Setup > System > GNSS > Restart
Syntax	:SOURce:DATA:TELecom:GNSS:REStart
Response Syntax	<QZSS>
Example(s)	SOUR:DATA:TEL:GNSS:REST
See Also	SOURce:DATA:TELecom:GNSS:REStart

:SOURce:DATA:TELecom:GNSS:STABility	
Description	This command sets the Drift Stability for GNSS at the input port. At *RST condition, this value is set to High. Navigation Path: Setup > System > GNSS > Stability.
Syntax	:SOURce:DATA:TELecom:GNSS:STABility <wsp><Stability>
Parameter(s)	Stability: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Drift Stability. HIGH: High stability LOW: Low stability
Response Syntax	<QZSS>
Example(s)	SOUR:DATA:TEL:GNSS:STAB LOW
See Also	SOURce:DATA:TELecom:GNSS:CONStellation

:SOURce:DATA:TELEcom:GNSS:STABility?

Description	This query returns the Drift Stability for GNSS at the input port. At *RST condition, this value is set to HIGH. Navigation Path: Setup > System > GNSS > Stability.
Syntax	:SOURce:DATA:TELEcom:GNSS:STABility?
Response Syntax	<Stability>
Response(s)	Stability: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Drift Stability. HIGH: High stability LOW: Low stability
Example(s)	SOUR:DATA:TEL:GNSS:STAB LOW SOUR:DATA:TEL:GNSS:STAB? Returns: LOW
See Also	SOURce:DATA:TELEcom:GNSS:CONStellation?

:SOURce:DATA:TELEcom:GNSS:TSource	
Description	This command sets the Time Source for GNSS at the input port. At *RST condition, this value is set to UTC. Navigation Path: Setup > System > GNSS > Time Source.
Syntax	:SOURce:DATA:TELEcom:GNSS:TSource <wsp><Time Source>
Parameter(s)	Time Source: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Time Source. UTC: UTC GPS: GPS GALILEO: Galileo BEIDOU: BeiDou GLONASS: GLONASS
Response Syntax	<Stability>
Example(s)	SOUR:DATA:TEL:GNSS:TSource GPS SOUR:DATA:TEL:GNSS:TSource? Returns: GPS
See Also	SOURce:DATA:TELEcom:GNSS:TSource?

:SOURce:DATA:TELEcom:GNSS:TSource?

Description	This query returns the Time Source for GNSS. At *RST condition, this value is set to UTC. Navigation Path: Setup > System > GNSS > Time Source
Syntax	:SOURce:DATA:TELEcom:GNSS:TSource?
Response Syntax	<Time Source>
Response(s)	Time Source: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Time Source. UTC: UTC GPS: GPS GALILEO: Galileo BEIDOU: BeiDou GLONASS: GLONASS
Example(s)	SOUR:DATA:TEL:GNSS:TSource GPS SOUR:DATA:TEL:GNSS:TSource? Returns: GPS
See Also	SOURce:DATA:TELEcom:GNSS:TSource

:SOURce:DATA:TELEcom:GNSS:VARiant	
Description	This command sets the Variant for GNSS at the input port. At *RST condition, this value is set to Auto. Navigation Path: Setup > System > GNSS > Variant.
Syntax	:SOURce:DATA:TELEcom:GNSS:VARiant <wsp><Variant>
Parameter(s)	Variant: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Variant. AUTO: Auto USNO: USNO SU: SU NTSC: NTSC EUROPE: Europe
Response Syntax	<Time Source>
Example(s)	SOUR:DATA:TEL:GNSS:VAR USNO SOUR:DATA:TEL:GNSS:VAR? Returns: USNO
See Also	SOURce:DATA:TELEcom:GNSS:VARiant?

:SOURce:DATA:TELeom:GNSS:VARiant?

Description	This query returns the Variant for GNSS. At *RST condition, this value is set to Auto. Navigation Path: Setup > System > GNSS > Variant
Syntax	:SOURce:DATA:TELeom:GNSS:VARiant?
Response Syntax	<Variant>
Response(s)	Variant: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Variant. AUTO: Auto USNO: USNO SU: SU NTSC: NTSC EUROPE: Europe
Example(s)	SOUR:DATA:TEL:GNSS:VAR USNO SOUR:DATA:TEL:GNSS:VAR? Returns: USNO
See Also	SOURce:DATA:TELeom:GNSS:VARiant

Summary

:FETCh:DATA:TELEcom:CPRI:OBSai:LINK:LAST?	
Description	This Query returns the OBSAI last Sync status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - Sync status
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:LINK:LAST?
Response Syntax	<Link Status>
Response(s)	Link Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Last(summary) link status for State machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:LINK:LAST?
See Also	SOURce:DATA:TELEcom:CPRI:OBSai:FCBGen?

:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:LAST:PTARget?	
Description	This Query returns the OBSAI RP3 Frame Summary Peer Target Address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summray > OBSAI - RP3 Peer Target Address
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:RPFRame:LAST:PTARget?
Response Syntax	<Last Peer Target Address>
Response(s)	Last Peer Target Address: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return Last(summary) Peer Target Address.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:RPFR:LAST:PTAR?
See Also	SOURce:DATA:TELEcom:CPRI:OBSai:RPFRame:ADDReSS:TARGet?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?	
Description	This Query returns the OBSAI RP3 Frame Summary Peer Target Address Status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - RP3 Peer Target Address Status
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?
Response Syntax	<Last Peer Target Address Status>
Response(s)	Last Peer Target Address Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Last(summary) Peer Target Address Status.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:RPFR:LAST:STAT?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:FETCh:DATA:TELeom:CPRI:OBSai:STATe:RECeive:LAST?

Description	This Query returns the OBSAI RX State Machine last status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - Sync - RX
Syntax	:FETCh:DATA:TELeom:CPRI:OBSai:STATe:RECeive:LAST?
Response Syntax	<RX State machine>
Response(s)	RX State machine: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return Last(summary) status for RX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:REC:LAST?
See Also	FETCh:DATA:TELeom:CPRI:OBSai:STATe:RECeive:LIVE?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?	
Description	This Query returns the OBSAI TX State Machine last status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - Sync - TX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?
Response Syntax	<TX State machine>
Response(s)	TX State machine: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return Last(summary) status for TX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:TRAN:LAST?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LIVE?

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMARY:RXCount?

Description	This Query returns the OBSAI Total RX Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - Total RX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:SUMMARY:RXCount? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the count type. CODEword: Code Word MESSAGEGROUP: Message Group FRAME: Frame
Response Syntax	<Total RX Count>
Response(s)	Total RX Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return Total RX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:SUMM:RXC? CODEWORD
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMARY:TXCount?	
Description	This Query returns the OBSAI Total TX Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > OBSAI - Total TX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:SUMMARY:TXCount? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the count type. CODEword: Code Word MESSAGEGROUP: Message Group FRAME: Frame
Response Syntax	<Total TX Count>
Response(s)	Total TX Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return Total TX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:SUMM:TXC? CODEWORD
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

Description	This query returns the number of Received CPRI Frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > CPRI > Code Word/Hyperframe Count RX
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter? <wsp> <Total RX>
Parameter(s)	Total RX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of CPRI Received Counter. CODEword, selects the type of CPRI Counter as Code Word. HYPERframe, selects the type of CPRI Counter as Hyperframe. LINKreset, selects the type of CPRI Counter as L1 Reset. 66BBlock, selects the type of CPRI Counter as 66B Block.
Response Syntax	<RX>
Response(s)	RX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Selects the type of CPRI Received Counter. CODE, selects the type of CPRI Counter as Code Word. HYPER, selects the type of CPRI Counter as Hyperframe.
Example(s)	FETC:DATA:TEL:CPRI:SUMM:RX:COUN?
See Also	FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

:FETCh:DATA:TELecom:CPRI:SUMMAry:TX:COUNter?	
Description	This query returns the number of transmitted CPRI Frames Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > CPRI > Code Word/Hyperframe Count TX
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMAry:TX:COUNter? <wsp> <Total TX>
Parameter(s)	Total TX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of CPRI Transmitted Counter. CODEword, selects the type of CPRI Counter as Code Word. HYPERframe, selects the type of CPRI Counter as Hyperframe. 66BBlock, selects the type of CPRI Counter as 66B Block.
Response Syntax	<TX>
Response(s)	TX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Selects the type of CPRI Transmitted Counter. CODE, selects the type of CPRI Counter as Code Word. HYPER, selects the type of CPRI Counter as Hyperframe.
Example(s)	FETC:DATA:TEL:CPRI:SUMM:TX:COUN?
See Also	FETCh:DATA:TELecom:CPRI:SUMMAry:RX:COUNter?

:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?

Description	This Query returns status of CPRI Threshold on Summary page. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Summary > CPRI PASS FAIL VERDICT
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Verdict.
Example(s)	FETC:DATA:TEL:CPRI:SUMM:VERD?
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELeom:OTL:SUMMary:SDT:AVERage?	
Description	This query returns the average disruption time for summary in OTL multilane configuration. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELeom:OTL:SUMMary:SDT:AVERage?
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:AVER?
See Also	FETCh:DATA:TEL:OTL:SDT:DEFect?

:FETCh:DATA:TELecom:OTL:SUMMAry:SDT:COUNt?

Description	This query returns the number of service disruption counts that happened since the beginning of the Service Disruption Time (SDT) test for summary in OTL multilane configuration. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMAry:SDT:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of service disruption counts that happened since the beginning of the SDT test.
Example(s)	FETC:DATA:TEL:OTL:SUMMAry:SDT:COUN?
See Also	FETCh:DATA:TELecom:SDT:TOTal?

:FETCh:DATA:TELecom:OTL:SUMMAry:SDT:LAST?	
Description	This query returns the length of the last disruption time for summary in OTL multilane configuration. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMAry:SDT:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the last disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMAry:SDT:LAST?
See Also	FETCh:DATA:TELecom:SDT:LAST?

:FETCh:DATA:TELeom:OTL:SUMMARY:SDT:LONGest?

Description	This query returns the longest disruption time for summary in OTL multilane configuration. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELeom:OTL:SUMMARY:SDT:LONGest?
Response Syntax	<Longest>
Response(s)	Longest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the longest disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMARY:SDT:LONG?
See Also	FETCh:DATA:TELeom:SDT:COUNt?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?	
Description	This query returns the shortest disruption time for summary in OTL multilane configuration. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?
Response Syntax	<Shortest>
Response(s)	Shortest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the shortest disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMM:SDT:SHOR?
See Also	FETCh:DATA:TELecom:SDT:LONGest?

:FETCh:DATA:TELeom:OTL:SUMMary:SDT:TOTal?

Description	This query returns the total disruption time for summary in OTL multilane configuraiton. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELeom:OTL:SUMMary:SDT:TOTal?
Response Syntax	<Total>
Response(s)	Total: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:TOT?
See Also	FETCh:DATA:TELeom:SDT:COUNt?

:FETCh:DATA:TELEcom:PATtern:ALARm:CURRent?	
Description	This query returns the current status of BER (Unframed) per lane alarm. At *RST condition, this value is device dependent. Navigation Path: Results >Summary > Pattern Loss
Syntax	:FETCh:DATA:TELEcom:PATtern:ALARm:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PLOSs: Pattern Loss
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:CURR? 1, PLOS
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory?

Description	This query returns the history status of BER (Unframed) per lane alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Pattern Loss > Alarms
Syntax	:FETCh:DATA:TELEcom:PATtern:ALARm:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PLOSs: Pattern Loss
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:HIST? 1, PLOS
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:CURRent?

:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds?	
Description	This query returns the number of seconds within which BER (Unframed) per lane alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Pattern Loss > Alarms
Syntax	:FETCh:DATA:TELEcom:PATtern:ALARm:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PLOs: Pattern Loss
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PATT:ALAR:SEC? 1, PLOS
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELecom:PATtern:ERRor:COUNT?

Description	This query returns the count of BER (Unframed) per lane errors. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATtern:ERRor:COUNT? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1'
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:PATT:ERR:COUN? 1, BIT
See Also	FETCh:DATA:TELecom:PATtern:ERRor:PATtern:CURRent?

:FETCh:DATA:TELecom:PATTErn:ERRor:CURRent?	
Description	This query returns the current status of BER (Unframed) per lane error. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTErn:ERRor:CURRent? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1'
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ERR:CURR? 1, BIT
See Also	FETCh:DATA:TELecom:PATTErn:ERRor:PATTErn:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory?

Description	This query returns the history status of BER (Unframed) per lane error. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:HISTory? <wsp> <Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1'
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ERR:HIST? 1, BIT
See Also	FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?	
Description	This query returns the Status of BERT Verdict. At *RST condition, this value is set to BIT. Navigation Path: Results > Summary > BERT
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:THReshold:VERDict?[<wsp> <Channel Number or Client ID>]
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict status: PASS FAIL
Example(s)	FETC:DATA:TEL:PATT:ERR:PATT:THR:VERD? FETC:DATA:TEL:PATT:ERR:PATT:THR:VERD? 3
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELecom:PATtern:ERRor:RATE?

Description	This query returns the current rate of BER (Unframed) per lane error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATtern:ERRor:RATE? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1'
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:PATT:ERR:RATE? 1,BIT
See Also	FETCh:DATA:TELecom:PATtern:ERRor:PATtern:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds?	
Description	This query returns the number of seconds within which BER (Unframed) per lane error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:SEConds? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1'
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:PATT:ERR:SEC? 1, BIT
See Also	FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:SEConds?

:FETCh:DATA:TELecom:SDT:AVERage?	
Description	This query returns the average disruption duration, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Average
Syntax	:FETCh:DATA:TELecom:SDT:AVERage?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the average disruption duration for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:AVER? FETC:DATA:TEL:SDT:AVER? 3
See Also	FETCh:DATA:TELecom:SDT:COUN?

:FETCh:DATA:TELEcom:SDT:COUNt?	
Description	This query returns the number of service disruptions, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Count
Syntax	:FETCh:DATA:TELEcom:SDT:COUNt?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the number of service disruption for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of service disruptions, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:COUN? FETC:DATA:TEL:SDT:COUN? 3
See Also	FETCh:DATA:TELEcom:SDT:TOTal?

:FETCh:DATA:TELecom:SDT:DEFect?

Description	This query returns the layer on which service disruption time test isperformed for OTN. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Defect
Syntax	:FETCh:DATA:TELecom:SDT:DEFect?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the layer on which service disruption time test isperformed for OTN.
Example(s)	FETC:DATA:TEL:SDT:DEF?
See Also	FETCh:DATA:TELecom:OTL:SDT:DEFect? FETCh:DATA:TELecom:SDT:CHAT?

:FETCh:DATA:TELecom:SDT:LAST?	
Description	This query returns the length of the last disruption time, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Last
Syntax	:FETCh:DATA:TELecom:SDT:LAST?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional in the Multi-Channel OTN application, and cannot be specified in other applications. When the channel is specified, the query returns the last disruption duration for the specified channel. When the channel is specified, the numeric channel ranges from [1:n] in function of ODU Mapping. When the channel is NOT specified, the query returns the last disruption of ALL monitored channels.
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the last disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LAST? FETC:DATA:TEL:SDT:LAST? 3
See Also	FETCh:DATA:TELecom:SDT:LONGest?

:FETCh:DATA:TELecom:SDT:LONGest?

Description	This query returns the longest disruption duration, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Longest
Syntax	:FETCh:DATA:TELecom:SDT:LONGest?[<wsp> <Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional in the Multi-Channel OTN application, and cannot be specified in other applications. When the channel is specified, the query returns the longest disruption duration for the specified channel. When the channel is specified, the numeric channel ranges from [1:n] in function of ODU Mapping. When the channel is NOT specified, the query returns the longest disruption of ALL monitored channels.
Response Syntax	<Longest>
Response(s)	Longest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the longest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LONG? FETC:DATA:TEL:SDT:LONG? 3
See Also	FETCh:DATA:TELecom:SDT:SHORTest?

:FETCh:DATA:TELecom:SDT:SHORtest?	
Description	This query returns the shortest disruption duration, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Shortest
Syntax	:FETCh:DATA:TELecom:SDT:SHORtest?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the shortest disruption duration for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Shortest>
Response(s)	Shortest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the shortest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:SHOR? FETC:DATA:TEL:SDT:SHOR? 3
See Also	FETCh:DATA:TELecom:SDT:COUNt?

:FETCh:DATA:TELeom:SDT:TOTal?

Description	This query returns the total disruption duration, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Total
Syntax	:FETCh:DATA:TELeom:SDT:TOTal?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the total disruption duration for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Total>
Response(s)	Total: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:TOT? FETC:DATA:TEL:SDT:TOT? 3
See Also	FETCh:DATA:TELeom:SDT:LAST?

:FETCh:DATA:TELecom:SDT:VERDict?	
Description	This query returns if a SDT disruption greater than than the Pass/Fail verdict threshold was detected. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Disruption - Verdict
Syntax	:FETCh:DATA:TELecom:SDT:VERDict?[<wsp><Channel>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns if a SDT disruption greater than than the Pass/Fail verdict threshold was detected for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Pattern SDT Verdict. NONE, verdict is not present. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:SDT:VERD? FETC:DATA:TEL:SDT:VERD? 3
See Also	FETCh:DATA:TELecom:OTL:SDT:DEFeCt? FETCh:DATA:TELecom:SDT:CHAT?

:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUnT?

Description	This query returns the number of times the system has recovered from power failure. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Power Failure
Syntax	:FETCh:DATA:TELeom:TEST:POWer:RECOvery:COUnT?
Response Syntax	<Power Failure Status>
Response(s)	Power Failure Status: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the power failure status of the test.
Example(s)	SOUR:DATA:TEL:TEST ON FETC:DATA:TEL:TEST:POW:RECO:COU?
See Also	FETCh:DATA:TELeom:TEST:STATus?

:FETCh:DATA:TELEcom:TEST:STARt:TIME?	
Description	This query returns the time at which the test started. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > StartTime
Syntax	:FETCh:DATA:TELEcom:TEST:STARt:TIME?
Response Syntax	<StartTime>
Response(s)	StartTime: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the time at which the test started.
Example(s)	SOUR:DATA:TEL:TEST ON FETC:DATA:TEL:TEST:STAR:TIME?
See Also	FETCh:DATA:TELEcom:LOGGer:LIST?

:FETCh:DATA:TELeom:TEST:STATus:VERDict?

Description	This query returns Global Test Status verdict status. At *RST condition, this value is set to device-dependent. Navigation Path: Test App > Setup > Results > Summary > Status
Syntax	:FETCh:DATA:TELeom:TEST:STATus:VERDict?
Response Syntax	<Global Verdict>
Response(s)	Global Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns test status global verdict status PASS, indicates verdict is Pass. FAIL, indicates verdict is Fail.
Example(s)	FETC:DATA:TEL:TEST:STAT:VERD?
See Also	FETCh:DATA:TELeom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?

:FETCh:DATA:TELEcom:TEST:STATus?	
Description	This query returns the test status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Status
Syntax	:FETCh:DATA:TELEcom:TEST:STATus?
Response Syntax	<Test Status>
Response(s)	Test Status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the status of the test.
Example(s)	SOUR:DATA:TEL:TEST ON FETC:DATA:TEL:TEST:STAT?
See Also	FETCh:DATA:TELEcom:TEST:START:TIME?

:FETCh:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict?	
Description	This query returns the Status of BERT Verdict. At *RST condition, this value is set to BIT. Navigation Path: Results > Summary > Unframed BERT
Syntax	:FETCh:DATA:TELEcom:UPRBs:PATtern:THReshold:VERDict? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number for which the injection is to be done for unframed BERT alarms and errors. The range is from 0 to 3 for 4 Lanes and 0 to 19 for 20 lanes.
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Pattern Unframed BERT Verdict. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:UPRB:PATT:THR:VERD? 1
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:SENSe:DATA:TELeom:CPRI:SUMMary:ETHernet:RATE?	
Description	This query return the Ethernet Channel rate value. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > CPRI > C&M Ethernet Negotiated
Syntax	:SENSe:DATA:TELeom:CPRI:SUMMary:ETHernet:RATE?
Response Syntax	<RATE>
Response(s)	RATE: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Ethernet Rate.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:ETH:RATE?
See Also	SENSe:DATA:TELeom:CPRI:SUMMary:HDLC:RATE?

:SENSe:DATA:TELecom:CPRI:SUMMARY:FSYNc:STATus?

Description	This query return the Frame Sync Status. At *RST condition, this value is set to device-dependent. Navigation Path: Test > CPRI > Results > Summary > Frame Sync
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMARY:FSYNc:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Sequence Sate.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:FSYN:STAT?
See Also	SENSe:DATA:TELecom:CPRI:SUMMARY:SState?

:SENSe:DATA:TELecom:CPRI:SUMMARY:HDLC:RATE?

Description	This query return the HDLC rate value. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > CPRI > C&M HDLC Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMARY:HDLC:RATE?
Response Syntax	<RATE>
Response(s)	RATE: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the HDLC Rate.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:HDLC:RATE?
See Also	SENSe:DATA:TELecom:CPRI:SUMMARY:ETHeRnet:RATE?

:SENSe:DATA:TELecom:CPRI:SUMMary:PROToCol:VERSIon?

Description	This query returns the Summary Protocol Version. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > CPRI > Protocol Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:PROToCol:VERSIon?
Response Syntax	<Version>
Response(s)	Version: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Protocol version.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:PROT:VERS?
See Also	SENSe:DATA:TELecom:CPRI:PORT:PROToCol:VERSIon?

:SENSe:DATA:TELecom:CPRI:SUMMARY:SSTate?	
Description	This query return the Sequence State. At *RST condition, this value is set to device-dependent. Navigation Path: Test > CPRI > Results > Summary > Sequence
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMARY:SSTate?
Response Syntax	<Sequence State>
Response(s)	Sequence State: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Sequence State.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:SST?
See Also	SENSe:DATA:TELecom:CPRI:SUMMARY:FSYNc:STATus?

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern?

Description	This query returns the enable/disable status of the continuous BER alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > BER > Alarm > Continuous > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PATtern:ALARm:PATtern?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT ON SOUR:DATA:TEL:PATT:ALAR:PATT? Returns: 1
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUnt SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect

:SOURce:DATA:TELecom:UNFRamed:PATtern:ALANes	
Description	This command enables/disables the selection of all lanes for unframed BERT alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (BER) > All Lanes
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ALANes <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAN ON SOUR:DATA:TEL:UNFR:PATT:ALAN? Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:LANE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes?

Description	This query returns the enable/disable selection status of all lanes for unframed BERT alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (BER) > All Lanes
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAN ON SOUR:DATA:TEL:UNFR:PATT:ALAN? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm	
Description	This command enables/disables the Unframed BERT alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Inject
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables alarm injection. ON: Enabled OFF: Disabled
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR ON SOUR:DATA:TEL:UNFR:PATT:ALAR? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

Description	This query returns the Unframed BERT alarm type. At *RST condition, this value is set to PLOSSs. Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Continuous - Defect
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of Unframed Bert alarm. PLOSSs: Pattern Loss
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR:TYPE? Returns: PLOS
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm?	
Description	This query returns the enable/disable status of the Unframed BERT alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Inject
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the alarm generation. 1: Alarm injection is enabled. 0: Alarm injection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR ON SOUR:DATA:TEL:UNFR:PATT:ALAR? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

**:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:AUToma
ted**

Description	This command enables/disables the Unframed BERT error rate injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:AUTomated <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT ON SOUR:DATA:TEL:UNFR:PATT:ERR:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTInuous	
Description	This command enalbes/disables the Unframed BERT error max rate injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Max Rate - Inject
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTInuous <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT ON SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTInuous?

Description	This query returns the enable/disable status of the Unframed BERT error max rate injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Max Rat - Inject
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:CONTInuous?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of max rate error injection. 1: Max rate error injection is enabled. 0: Max rate error injection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT ON SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE	
Description	This command sets the error rate value for Unframed BERT. At *RST condition, this value is set to 1.0E-09. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Rate
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of Unframed BERT error. MAXimum MINimum
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE 1.0E-03 SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE? Returns: 1.0E-03
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:AUTomated:RATE?

Description	This query returns the error rate value for Unframed BERT. At *RST condition, this value is set to 1.0E-09. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Rate
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:AUTomated:RATE?[<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the error rate value. This parameter is optional. If no token is specified, the current rate is returned. MAXimum: Biggest rate MINimum: Smallest reate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the error rate value.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE 1.0E-03 SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE? Returns: 1.0E-03
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:TYPE?	
Description	This query returns the rate/max rate defect for Unframed BERT. At *RST condition, this value is set to BIT. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate/Max Rate - Defect
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the automated type Unframed Bert error. BIT, bit is selected as the automated type Unframed Bert error.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:TYPE? Returns: BIT
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Unframed BERT error rate injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Inject
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of error rate injection. 1: Error rate injection is enabled. 0: Error rate injection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT ON SOUR:DATA:TEL:UNFR:PATT:ERR:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:AMOUNT	
Description	This command sets the amount of error to be generated for Unframed BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Summary > Inject > Layer (BER) > Errors - Manual - Amount
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO 25 SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO? Returns: 25
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:AMOut?

Description	This query returns the amount of error to be generated for Unframed BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Summary > Inject > Layer (BER) > Errors - Manual - Amount
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:AMOut? [<wsp> <Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of Unframed Bert error.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO 25 SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO? Returns: 25
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:INJect	
Description	This command injects manual error for Unframed BERT. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Summary > Inject > Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:TYPE?

Description	This query returns the selected error defect for Unframed BERT. At *RST condition, this value is set to BIT. Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Manual - Defect
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error defect. BIT: Bit Error
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:TYPE? Returns: BIT
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALARm:TYPE?

:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE	
Description	This command enables/disables the selection of a lane for Unframed BERT alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) > Lane
Syntax	:SOURce:DATA:TELEcom:UNFRamed:PATtern:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables a lane for alarms/errors injection. ON: Enables the particular lane. OFF: Disables the particular lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:LANE 5, ON SOUR:DATA:TEL:UNFR:PATT:LANE? 5 Returns: 1
See Also	SOURce:DATA:TELEcom:UNFRamed:PATtern:ALANes?

:SOURce:DATA:TELecom:UNFRamed:PATtern:LANE?

Description	TThis query returns the enable/disable selection status of a lane for Unframed BERT alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) > Lane
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATtern:LANE? <wsp> <Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of alarms/errors lane selection. 1: Lane selected 0: Lane not selected
Example(s)	SOUR:DATA:TEL:UNFR:PATT:LANE 5, ON SOUR:DATA:TEL:UNFR:PATT:LANE? 5 Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATtern:ALANes

Summary (Traffic Gen & Mon) - (Stream)

:FETCh:DATA:TELEcom:ETHernet:COUNT:DUALport:FRAMES:RX? X?	
Description	This query returns the received frame count per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Performance > RX Frame Count
Syntax	:FETCh:DATA:TELEcom:ETHernet:COUNT:DUALport:FRAMES:RX? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count.
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:RX? 1,P1TOP2
See Also	SOURce:DATA:TEL:ETH:STR:PAYL

:FETCh:DATA:TELecom:ETHernet:COUnT:DUALport:FRAMes:TX?

Description	This query returns the transmitted frame count per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Service Performance > TX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUnT:DUALport:FRAMes:TX? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service from 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count.
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:TXR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELEcom:ETHernet:COUNt:DUALport:FRAMes:TXRate?	
Description	This query returns the frames transmitted for selected traffic stream for dualport. At *RST condition, this value is device dependent. Navigation Path: Traffic Gen & Mon > Results > Summary > Stream (Pop up) > TX Rate(%).
Syntax	:FETCh:DATA:TELEcom:ETHernet:COUNt:DUALport:FRAMes:TXRate? <wsp> <Tgen>, <Direction>
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Frame TXRate>
Response(s)	Frame TXRate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Total Tx rate value
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:TX? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?

Description	This query returns the number of frames received. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Frame Count Navigation Path: Results > Service Performance > RX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:RX? <wsp> <Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Framerx>
Response(s)	Framerx: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of flow control pause frames received.
Example(s)	FETC:DATA:TEL:ETH:COUN:FRAM:RX? 2
See Also	SOURce:DATA:TEL:ETH:STR:PAYL

SCPI Command Reference

Summary (Traffic Gen & Mon) - (Stream)

:FETCh:DATA:TELEcom:ETHernet:COUNT:FRAMes:TX?	
Description	This query returns the frames transmitted for selected traffic stream. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > TX Frame Count
Syntax	:FETCh:DATA:TELEcom:ETHernet:COUNT:FRAMes:TX? <wsp><Stream>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16.
Response Syntax	<Frame TX>
Response(s)	Frame TX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of flow control pause frames Transmitted.
Example(s)	FETCh:DATA:TEL:ETHernet:COUNT:FRAM:TX? 2
See Also	FETCh:DATA:TELEcom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:FLOs:VERDict?

Description	This query returns the Frame Loss Count/Rate verdict status per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss - Count/Rate - Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:FLOs:VERDict? <wsp> <Service>, <Type>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Count/Rate: COUNt RATE Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:FLOS:VERD? 1, RATE,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:AVErAge?	
Description	This query returns the Jitter average value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:AVErAge? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THROUGHput:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:CURRent?	
Description	This query returns the Jitter current value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:CURRent? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THROUGHput:AVERage?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:ES Timate?	
Description	This query returns the Jitter estimated value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Estimate
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:ESTimate? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Estimate>
Response(s)	Estimate: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the estimated value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:EST? 1, P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MAXimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITter:MAXimum:VERDict?

Description	This query returns the Jitter verdict based on maximum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Maximum - Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITter:MAXimum:VERDict? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MAX:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:VERDict? 1

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:MAXimum?	
Description	This query returns the Jitter maximum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Maximum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:MAXimum? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MAX? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MINimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:MINimum?

Description	This query returns the Jitter minimum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Jitter > Minimum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:JITTer:MINimum? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MIN? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:
AVERage?

Description	This query returns the Latency average value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Latency > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:AVERage? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SECONDS?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:CURRent?

Description	This query returns the Latency current value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Latency > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:CURRent? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNT?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:LATency:MAXimum:VERDict?	
Description	This query returns the Latency verdict based on mamimum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Latency > Maximum - Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:LATency:MAXimum:VERDict? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MAX:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:FLOsS:VERDict? 1, RATE

:FETCh:DATA:TELecom:ETHeRnet:STReam:DUALport:LATency:MAXimum?

Description	This query returns Latency maximum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Latency > Maximum
Syntax	:FETCh:DATA:TELecom:ETHeRnet:STReam:DUALport:LATency:MAXimum? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MAX? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHeRnet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:LATency:MINimum?	
Description	This query returns the Latency minimum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Latency > Minimum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:LATency:MINimum? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MIN? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?

**:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:OOSequ
ence:VERDict?**

Description	This query returns the Out-of-Sequence Count/Rate verdict per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Out-of-Seq - Count/Rate - Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:OOSequence:VERDict? <wsp> <Service>, <Type>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Count or Rate: COUNt RATE Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:OOS:VERD? 1, COUNt,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:AVERage:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage:VERDict?	
Description	This query returns RX Rate (%) verdict based on average value per direction for dualport. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Average - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage:VERDict? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:AVER:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict? 1, COUNT

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage?	
Description	This query returns the RX RATE (%) average value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction. P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:THRoughput:CURRent:VERDict?	
Description	This query returns the RX Rate (%) verdict based on the current value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Current - Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:DUALport:THRoughput:CURRent:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the vedict: PASS FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:CURR:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent?	
Description	This query returns the RX Rate (%) current value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MAXimum?	
Description	This query returns the RX Rate (%) maximum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MAXimum? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:MAX? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MINimum?	
Description	This query returns the RX Rate (%) minimum value per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > RX Rate (%) > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MINimum? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:MIN? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Summary (1588 PTP (Client))

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:VERDict?

Description	This query returns the Inter Packet Delay Variation (IPDV) measurement verdict.(Sync,Delay Request) Navigation Path: Results > Summary > Delay Measurement > Sync IPDV Navigation Path: Results > Summary > Delay Measurement > Delay Req IPDV
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:VERDict? <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay measurement parameter. SYNCIPDV: Sync IPDV DELAYREQIPDV: Delay Req IPDV
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. This query returns Inter Packet Delay Variation (IPDV) verdict. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:VERDict? SYNCIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?

Description	This query returns the Date and Time of the Last QL change. At *RST condition, this value is set to Never. Navigation Path: Results > Summary > Quality Level > Last Change
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?
Response Syntax	<QLChange>
Response(s)	QLChange: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Last QL Changed
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:LAST:CHAN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:MINimum?

SCPI Command Reference

Summary (1588 PTP (Client))

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?	
Description	This query returns the Last QL Received. Navigation Path: Results > Summary > Quality Level > Last QL Received
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?
Response Syntax	<QLReceived>
Response(s)	QLReceived: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Last QL Received.
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:LAST:REC?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:AVERage?

Summary (Cable Test)

:FETCh:DATA:TELecom:CABLeTest:DELAyskew:PAIRresult?

Description	This query returns results of Distance to Fault value for Cable test according to pair No. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLeTest:DELAyskew:PAIRresult? <wsp> <Pair no>
Parameter(s)	Pair no: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets pair no. for Dist to Fault value in cable test
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Dist.to fault value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:DEL:PAIR? 1
See Also	FETCh:DATA:TELecom:ALARm:HISTory? FETCh:DATA:TELecom:ALARm:SECOnds?

:FETCh:DATA:TELeom:CABLeTest:DELaYskew:RESult?	
Description	This query returns results of Scewdelay for Cable test. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Cable > Delay Scew(ns)
Syntax	:FETCh:DATA:TELeom:CABLeTest:DELaYskew:RESult?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Delay skew value for cable test.
Example(s)	FETC:DATA:TEL:CABL:DEL:RES?
See Also	FETCh:DATA:TEL:SDHS:HOP:PM:STAT?

:FETCh:DATA:TELecom:CABLeTest:LENGth:PAIRresult?

Description	This query returns results of Length value for Cable test according to pair No. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLeTest:LENGth:PAIRresult? <wsp><Pair no>
Parameter(s)	Pair no: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets pair no. for length value in cable test
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Length value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:LENG:PAIR? 1
See Also	FETCh:DATA:TELecom:ERRor:CURRent? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:RATE? FETCh:DATA:TELecom:ERRor:COUNt?

:FETCh:DATA:TELeom:CABLeTest:LENGth:RESult?	
Description	This query returns results of Length for Cable test. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Cable > Length(m)
Syntax	:FETCh:DATA:TELeom:CABLeTest:LENGth:RESult?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Cable length value for cable test.
Example(s)	FETC:DATA:TEL:CABL:LENG:RES?
See Also	FETCh:DATA:TEL:PATT:PM:STAT?

:FETCh:DATA:TELEcom:CABLeTest:PAIR:THReshold?

Description	This query returns verdict results for Cable test depending upon values and Pair no. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELEcom:CABLeTest:PAIR:THReshold? <wsp><Value>, <Pair no>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets values for threshold in cable test PROPdelay is the maximum time for a pulse to reach the far end LENGth is the maximum acceptable cable length DISTTOFAULT is the distance to fault from the near end for each pair Pair no: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets pair no. for threshold in cable test.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the threshold verdict values of cable test according to pair no and values Pass, Pass is return as threshold value. Fail, Fail return as threshold value. None,None return as threshold value.
Example(s)	FETC:DATA:TEL:CABL:PAIR:THR? PROPdelay,1
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW

:FETCh:DATA:TELecom:CABLeTest:PROPdelay:PAIRresult?	
Description	This query returns results of Propagation Delay value for Cable test according to pair No. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLeTest:PROPdelay:PAIRresult? <wsp><Pair no>
Parameter(s)	Pair no: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets pair no. for Prop.delay value in cable test
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Prop.Delay value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:PROP:PAIR? 1
See Also	FETCh:DATA:TELecom:ALARm:HISTory? FETCh:DATA:TELecom:ALARm:CURRent?

:FETCh:DATA:TELeom:CABLeTest:PROPdelay:RESult?

Description	This query returns results of Propagation delay for Cable test. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Cable > Prop. Delay(ns)
Syntax	:FETCh:DATA:TELeom:CABLeTest:PROPdelay:RESult?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Propagation Delay value for cable test.
Example(s)	FETC:DATA:TEL:CABL:PROP:RES?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELEcom:CABLeTest:THReshold?	
Description	This query returns verdict results for Cable test depending upon values. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > cable
Syntax	:FETCh:DATA:TELEcom:CABLeTest:THReshold? <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets values for threshold in cable test WIRemap is the pair having the worst Wire Map PROPdelay is the maximum time for a pulse to reach the far end LENGth is the maximum acceptable cable length DELAYSKEW is the delay skew value for the pair having the worst delay skew
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the threshold Values of cable test according to values. Pass, Pass is return as threshold value. Fail, Fail return as threshold value. None,None return as threshold value.
Example(s)	FETC:DATA:TEL:CABL:THR? PROPdelay
See Also	FETCh:DATA:TELEcom:SDHS:ADV:APS:K[1..n]:DNODE?

:FETCh:DATA:TELEcom:CABLeTest:WIREmap:PAIRresult?

Description	This query returns results of wiremap value for Cable test according to pair No. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELEcom:CABLeTest:WIREmap:PAIRresult? <wsp><Pair no>
Parameter(s)	Pair no: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets pair no. for Wire map value in cable test
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Wire Map value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:WIR:PAIR? 1
See Also	FETCh:DATA:TELEcom:ALARm:CURRent? FETCh:DATA:TELEcom:ALARm:SEConds?

:FETCh:DATA:TELecom:CABLeTest:WIRemap:RESult?	
Description	This query returns results of wiremap for Cable test. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Cable > Wire Map
Syntax	:FETCh:DATA:TELecom:CABLeTest:WIRemap:RESult?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Wire Map value for cable test.
Example(s)	FETC:DATA:TEL:CABL:WIR:RES?
See Also	FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Summary (EtherSAM)

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:VERDict?

Description	This query returns Service CONFig test Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig Test
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:VERDict? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:VERDict? 1, LTOR
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:ADD

:FETCh:DATA:TELEcom:ETHernet:ESAM:SPRTTest:VERDict?	
Description	This query returns Service performance test Verdict Navigation Path: Navigation Path: Setup > EtherSAM > Results > Service Performance Test
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SPRTTest:VERDict? <wsp> <Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SPRTTest:VERDict? 1, LTOR
See Also	SOURce:DATA:TELEcom:ETHernet:ESAM:RAMP:STEP:DELe

**:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FL
OSs:VERDict?**

Description	This query returns the Frame Loss verdict status. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOs:VERDict? <wsp><Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Loss verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOs:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:FLOs:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FL OSs?	
Description	This query returns the percentage of frames that are lost. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOsS? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Frame Loss>
Response(s)	Frame Loss: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns frame loss percentage
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOsS? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:FLOsS?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

Description	This query returns Max Jitter verdict status. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Jitter verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MAXJitter?	
Description	This query returns maximum measured delay variation. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MAXJitter? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Max Jitter>
Response(s)	Max Jitter: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Max Jitter
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MAXJitter? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict?

Description	This query returns Max Latency verdict status. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Latency verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:MLATency:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MLATency?

Description	This query returns maximum measured round trip latency (delay). Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MLATency? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Max Latency>
Response(s)	Max Latency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Max Latency
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MLATency? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:MLATency?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict?

Description	This query returns Max Rx Rate verdict. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max RX Rate(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Rx Rate verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXR:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:ARXRate:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MRXRate?	
Description	This query returns measured maximum utilization throughput. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Excess > Max RX Rate(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MRXRate? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Max Rx Rate>
Response(s)	Max Rx Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Max Rx Rate
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MRXR? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:ARXRate?

:FETCh:DATA:TELeom:ETHernet:ESAM:SUMMery:SERVices:VLAN:PREServ?

Description	This query returns the Virtual Local Area Network (VLAN) preservation status for service. At *RST condition, this value is set to UNDEFINED. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service
Syntax	:FETCh:DATA:TELeom:ETHernet:ESAM:SUMMery:SERVices:VLAN:PREServ? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. - For DTS use both LTOR and RTOL as direction and for non-DTS use LTOR as direction: LTORemote: Local to Remote RTOLocal: Remote to Local - For Dual Port use P1TOP2 and P2TOP1: P1TOP2: P1-to-P2 for dual port topology P2TOP1: P2-to-P1 for dual port topology.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns VLAN preservation status.
Example(s)	FETC:DATA:TEL:ETH:ESAM:SUMM:SERV:VLAN:PRES? 1, LTOR
See Also	SOURce:DATA:TELeom:ETHernet:ESAM: CONFig:BURSt:PARAmeters:BIRFrame?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:ARXRate:VERDict?	
Description	This query returns Avg. Rx Verdict. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Avg RX Rate(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:ARXRate:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Avg Rx Rate verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:ARXRate:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:MRXR:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:ARXRate?	
Description	This query returns the average utilization throughput. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Avg RX Rate(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:ARXRate? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Avg Rx Rate>
Response(s)	Avg Rx Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Average Rx Rate
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:ARXRate? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MRXR?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:FL
OSs:VERDict?

Description	This query returns the percentage of Frame Loss verdict. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRTTest:FLOs:VERDict? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Loss verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SPRT:FLOs:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMary:SCOTest:FLOs:VERDict?

**:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTesT:FL
OSs?**

Description	This query returns the percentage of frames that are lost. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Excess > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTesT:FLOsS? <wsp> <Service> , <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Frame Loss>
Response(s)	Frame Loss: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns frame loss percentage
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:FLOsS? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTesT:FLOsS?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:MAXJitter:VERDict?	
Description	This query returns the Max Jitter verdict. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:MAXJitter:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Jitter verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:MAXJitter:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTTest:MAXJitter?

Description	This query returns the maximum measured delay variation. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTTest:MAXJitter? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Max Jitter>
Response(s)	Max Jitter: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Max Jitter
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:MLATency:VERDict?	
Description	This query returns the Max Latency verdict. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRTTest:MLATency:VERDict? <wsp><Service>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Latency verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SPRT:MLATency:VERDict? 1, LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SUMMARY:SCOTest:MLATency:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMARY:SPRT:MLATency?

Description	This query returns the maximum measured round trip latency (delay). Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMARY:SPRT:MLATency? <wsp><Service>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Max Latency>
Response(s)	Max Latency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Max Latency
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMARY:SPRT:MLATency? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMARY:SCOTest:MLATency?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PRE Serv?	
Description	This query returns the Virtual Local Area Network (VLAN) preservation status. At *RST condition, this value is set to UNDEFINED. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Vlan Preservation
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns VLAN preservation status.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARAmeters:BIRFrame?

:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:STATus?

Description	This query returns Service CONFig and Service performance test status Navigation Path: Setup > EtherSAM > Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:STATus? <wsp><Direction>, <Test>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Test: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of EtherSAM sub-tests. SCONTest: the Service CONFig Test SPERTest: the Service performance Test
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Status.
Example(s)	FETC:DATA:TELecom:ETHernet:ESAM:TESTs:STATus? LTOR,SCONTest
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSS:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict?	
Description	This query returns Service CONFig and Service performance test Verdict Navigation Path: Setup > EtherSAM > Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict? <wsp><Direction>, <Test>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Test: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of EtherSAM sub-tests. SCONTest: the Service CONFig Test SPERTest: the Service performance Test
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict? LTOR,SCONTest
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity?

Summary (RFC 2544)

:FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

Description	This query returns the number of frames for the corresponding direction depending on the selected Layer and Displayed Results. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > table - Back-to-Back NOTE: For BBResults[1..n], use BBR1 to BBR10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:BBResults[1..n]? <wsp><Direction>, <Results>, <Layers>

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. Results: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the result mode. CURRent RMINimum RMAXimum AVERage Layers: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the layers used to calculate the back-to-back test. ETHernet: ETHERNET as layer used to calculate the back-to-back test. IP: IP ALL, All layer
Response Syntax	<Results>

**:FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:BBResults[1.
.n]?**

Response(s)

Results:
The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the back-to-back results.
TX2RX, returns TX-to-RX (TX2RX) for single port topology.

Example(s)

FETC:DATA:TEL:ETH:RFC:BCKT:BBR1? TX2RX,CURR,ALL

See Also

FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRIal?	
Description	This query returns the current trial number for the Back-to-Back test. Only available when the Back-to-Back test is running. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRIal?
Response Syntax	<Number>
Response(s)	Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:CTRIal?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?	
Description	This query returns the number of transmitted frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?

Description	This query returns the back-to-back test status messages. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test status. NONE, None is retrieved. INITIALIZING, Initializing is retrieved. WAITING, Waiting is retrieved. NMEASURABLE, Not Measurable is retrieved. SLFRAMES, Sending Learning Frames is retrieved. STFRAMES, Sending Test Frames is retrieved. ABUSER, Aborted by User is retrieved. LDOWN, Link Down is retrieved. ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved. MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?	
Description	This query returns the elapsed time for the back-to-back subtest. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

Description	This query returns the back-to-back test state. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?
Response Syntax	<State>
Response(s)	State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test state. --, indicates that the test has not run yet. INPROGRESS, indicates that the test is running. COMPLETED, indicates that the test is completed. ABORTED, indicates that the test has been interrupted (stopped). INACTIVE, indicates that the test is inactive. FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOsS:CSTep?	
Description	This query returns the current percentage of the testing rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:FLOsS:CSTep?
Response Syntax	<Step>
Response(s)	Step: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the current percentage of the testing rate.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:CST?
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:FLOsS:CTRial?

:FETCh:DATA:TELeom:ETHernet:RFC:FLOs:CTRial?

Description	This query returns the current trial number for the Frame Loss test. Only available when the Frame Loss test is running. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:FLOs:CTRial?
Response Syntax	<Number>
Response(s)	Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:CTR?
See Also	FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:FCOunt:RX?	
Description	This query returns the number of received frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:FCOunt:RX? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOs:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOs:FCOunt:TX? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOs:FCOunt:RX?

:FETCh:DATA:TELEcom:ETHernet:RFC:FLOs:FRESults[1..n]?	
Description	This query returns the number of frames for the corresponding direction depending on the selected Displayed Step and Displayed Results. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > table - Frame Loss NOTE: For FRESults[1..n], use FRES1 to FRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:FLOs:FRESults[1..n]? <wsp> <Direction>, <Results>, <Step>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. Results: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the result mode. CURRent RMINimum RMAXimum AVERage Step: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the current percentage of the testing rate.
Response Syntax	<Results>

:FETCh:DATA:TELecom:ETHernet:RFC:FLOs:FRESults[1..n]?

Response(s)	Results: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame Loss results.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FRES1? TX2RX,CURR,90.000
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:SMESsage?	
Description	This query returns the Frame Loss test status messages. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:SMESsage?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Loss test status. NONE, None is retrieved. INITIALIZING, Initializing is retrieved. WAITING, Waiting is retrieved. NMEASURABLE, Not Measurable is retrieved. SLFRAMES, Sending Learning Frames is retrieved. STFRAMES, Sending Test Frames is retrieved. ABUSER, Aborted by User is retrieved. LDOWN, Link Down is retrieved. ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved. MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKToBck:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:TETime?

Description	This query returns the elapsed time for the Frame Loss subtest. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:TETime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:TSTate?	
Description	This query returns the Frame Loss test state. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:TSTate?
Response Syntax	<State>
Response(s)	State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Loss test state. --, indicates that the test has not run yet. INPROGRESS, indicates that the test is running. COMPLETED, indicates that the test is completed. ABORTED, indicates that the test has been interrupted (stopped). INACTIVE, indicates that the test is inactive. FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

:FETCh:DATA:TELEcom:ETHernet:RFC:GLOBal:THReshold:VERDict?

Description	This query returns verdict status. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:GLOBal:THReshold:VERDict? <wsp> <VALue>
Parameter(s)	VALue: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Subtests THRoughput, select Throughput test BTBack, select Back-to-Back Test FLOsS: Frame Loss Test LATency: Latency test
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict status. None, returns test is pending Pass, returns test is pass Fail, returns test is fail
Example(s)	FETC:DATA:TEL:ETH:RFC:GLOBal:THReshold:VERDict? THR
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:CTRIal?	
Description	This query returns the current trial number for the Latency test. Only available when the Latency test is running. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:CTRIal?
Response Syntax	<Number>
Response(s)	Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:CTRIal?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?	
Description	This query returns the number of transmitted frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

**:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]
?**

Description	This query returns the number of frames for the corresponding direction depending on the selected Mode and Displayed Results. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > table - Latency (per frame) NOTE: For LRESults[1..n], use LRES1 to LRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]? <wsp> <Direction> , <Results> , <Mode>

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]
?

Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. Results: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the result mode. CURRrent RMINimum RMAXimum AVERage Mode: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the propagation time mode. SFORward: Store and Forward (SFORward), which allows the calculation of the propagation time of a frame. CTHRough: Cut Through (CTHRough), which allows the calculation of the propagation time of a bit.
Response Syntax	<Results>

**:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]
?**

Response(s)	Results: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Latency results.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:LRES1? TX2RX,CURR,CTHR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:Througput:TRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?	
Description	This query returns the latency test status messages. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the latency test status. NONE, None is retrieved. INITIALIZING, Initializing is retrieved. WAITING, Waiting is retrieved. NMEASURABLE, Not Measurable is retrieved. SLFRAMES, Sending Learning Frames is retrieved. STFRAMES, Sending Test Frames is retrieved. ABUSER, Aborted by User is retrieved. LDOWN, Link Down is retrieved. ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved. MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSS:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TETime?

Description	This query returns the elapsed time for the Latency subtest. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TETime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TSTate?	
Description	This query returns the latency test state. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TSTate?
Response Syntax	<State>
Response(s)	State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the latency test state. --, indicates that the test has not run yet. INPROGRESS, indicates that the test is running. COMPLETED, indicates that the test is completed. ABORTED, indicates that the test has been interrupted (stopped). INACTIVE, indicates that the test is inactive. FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOsS:TSTate?

:FETCh:DATA:TELEcom:ETHernet:RFC:SUMMary:THReshold:V
ERDict?

Description	This query returns verdict status depends upon test and frame size. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:SUMMary:THReshold:VERDict? <wsp> <VALue>, <Fsize>
Parameter(s)	VALue: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Subtests THRoughput, select Throughput test BTBack, select Back-to-Back Test FLOSs: Frame Loss Test LATency: Latency test Fsize: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Frame Size F64: 64 F128to255: 128 F256to511: 256 F512to1023: 512 F1024to1518: 1024 F12804tof1517: 1280 F1518: 1518
Response Syntax	<Status>

:FETCh:DATA:TELecom:ETHernet:RFC:SUMMAry:THReshold:VERDict?

Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the verdict status. None, returns test is pending Pass, returns test is pass Fail, returns test is fail
Example(s)	FETC:DATA:TEL:ETH:RFC:SUMM:THR:VERD? THR,F1518
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELeom:ETHernet:RFC:THRoughput:CTRial?

Description	This query returns the current trial number for the Throughput test. Only available when the Throughput test is running. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:THRoughput:CTRial?
Response Syntax	<Number>
Response(s)	Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the current trial number.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:CTR?
See Also	FETCh:DATA:TELeom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:FCOunt:RX?	
Description	This query returns the number of received frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:FCOunt:RX? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:FCO:RX? TX2RX
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	Fcount: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?	
Description	This query returns the throughput test status messages. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the throughput test status messages. NONE, None is retrieved. INITIALIZING, Initializing is retrieved. WAITING, Waiting is retrieved. NMEASURABLE, Not Measurable is retrieved. SLFRAMES, Sending Learning Frames is retrieved. STFRAMES, Sending Test Frames is retrieved. ABUSER, Aborted by User is retrieved. LDOWN, Link Down is retrieved. ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved. MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSS:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?

Description	This query returns the elapsed time for the throughput subtest. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELeom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Description	This query returns the number of frames for the corresponding direction depending on the selected Layer and Displayed Results. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > table - Throughput NOTE: For TRESults[1..n], use TRES1 to TRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:THRoughput:TRESults[1..n]? <wsp><Direction> , <Results> , <Layers>

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TREsults[1..n]?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the direction.

(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)

TX2RX: TX-to-RX (TX2RX) for single port topology.

LTORemote: Local-to-Remote direction.

RTOLocal: Remote-to-Local direction.

P1TOP2: P1 -TO-P2.

P2TOP1: P2 -TO-P1.

Results:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the result mode.

CURRent

RMINimum

RMAXimum

AVERage

Layers:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the layer:

ETHernet: Ethernet

IP

ALL: All layer

**Response
Syntax**

<Results>

:FETCh:DATA:TELeom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Response(s)	Results: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Throughput results.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TRES1? TX2RX,CURR,ALL
See Also	FETCh:DATA:TELeom:ETHernet:RFC:FLOs:FRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

Description	This query returns the throughput test state. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?
Response Syntax	<State>
Response(s)	State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the throughput test state. --, indicates that the test has not run yet. INPROGRESS, indicates that the test is running. COMPLETED, indicates that the test is completed. ABORTED, indicates that the test has been interrupted (stopped). INACTIVE, indicates that the test is inactive. FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:VALidation?	
Description	This query returns the number of times the result should be validated. At *RST condition, this value is set to 1. Navigation Path: Results > Summary > Val. #
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:THRoughput:VALidation?
Response Syntax	<Current validation>
Response(s)	Current validation: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of times the result should be validated.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:VAL?
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:LATency:MINTime?

Summary (SyncE)

:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:AVERAge?	
Description	This query returns the ESMC Average frame/s. At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Avrage frame/s
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns ESMC Average frame/s.
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAM:AVER?
See Also	SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?

:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?	
Description	This query returns the ESMC Maximum frame/s At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Maximum frame/s
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns ESMC Maximum frame/s
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAMES:MAX?
See Also	SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?

:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MI
Nimum?

Description	This query returns the ESMC Minimum frame/s At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Minimum frame/s
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns ESMC Minimum frame/s
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAM:MIN?
See Also	SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNT?	
Description	This query returns the RX Event Count At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Event Count Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Event Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNT?
Response Syntax	<RX Event count>
Response(s)	RX Event count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns RX Event Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXEV:COUN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNT?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

Description	This query returns the RX Information At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Information Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Information Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?
Response Syntax	<RX Information>
Response(s)	RX Information: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns RX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXIN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHAnGe?	
Description	This query returns the RX Last change At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Last change Results > Quality Level > Last Change Recived
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHAnGe?
Response Syntax	<RX Last change>
Response(s)	RX Last change: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns RX Last change
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXLast:CHAnGe?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHAnGe?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QL Message?	
Description	This query returns the RX Last QL Message At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Last QL Message Navigation Path: Test App > SyncE > Results > Quality Level > last QL Received
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?
Response Syntax	<QL Message>
Response(s)	QL Message: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns RX Last QL Message
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXLast:QLM?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNT?	
Description	This query returns the RX QL Mismatch Frame Count At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX QL Mismatch Frame Count
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNT?
Response Syntax	<Frame count>
Response(s)	Frame count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns RX QL Mismatch Frame Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXQL:FRAM:COUNT?
See Also	SENSe:DATA:TELeom:PACKetsync:SYNCe:ESMC:RXEvent:COUNT?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?

Description	This query returns the ESMC RX rate At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > ESMC RX rate
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?
Response Syntax	<RX Rate>
Response(s)	RX Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns ESMC RX rate
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXR?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUNt?	
Description	This query returns the TX Event Count At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Event Count Navigation Path: Test App > SyncE > Results > Quality Level > QL > TX Event Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUNt?
Response Syntax	<TX Event>
Response(s)	TX Event: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns TX Event Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXEV:COUN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?

Description	This query returns the TX Information At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Information Navigation Path: Test App > SyncE > Results > Quality Level > QL > TX Information Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?
Response Syntax	<TX Information>
Response(s)	TX Information: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns TX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXIN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?	
Description	This query returns the TX Last change At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Last change Navigation Path: Test App > SyncE > Results > Quality Level > Last Change Generated
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?
Response Syntax	<TX Last change>
Response(s)	TX Last change: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns TX Last change
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXL:CHAN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QL Message?	
Description	This query returns the TX Last QL Message. At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Last QL Message Navigation Path: Test App > SyncE > Results > Quality Level > Generated QL
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?
Response Syntax	<TX Last QL message>
Response(s)	TX Last QL message: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns TX Last QL Message.
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXL:QLM?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Summary (TCP Throughput)

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?	
Description	This query returns the average round trip delay value. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Average.
Syntax	:FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the average Round Trip Delay value.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:RTD:TIME:AVER?
See Also	FETCh:DATA:TELecom:ETHernet:RTD:TIME:LAST?

:FETCh:DATA:TELeom:ETHernet:RTD:TIME:LAST?

Description	This query returns the last round trip delay value. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Last.
Syntax	:FETCh:DATA:TELeom:ETHernet:RTD:TIME:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the last Round Trip Delay recorded.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:RTD:TIME:LAST?
See Also	FETCh:DATA:TELeom:ETHernet:RTD:TIME:AVERage?

SCPI Command Reference

Summary (TCP Throughput)

:FETCh:DATA:TELeom:ETHernet:RTD:TIME:MAXimum?	
Description	This query returns the maximum Round Trip Delay recorded. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Maximum.
Syntax	:FETCh:DATA:TELeom:ETHernet:RTD:TIME:MAXimum?
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the maximum Round Trip Delay recorded
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:RTD:TIME:MAX?
See Also	FETCh:DATA:TELeom:ETHernet:RTD:TIME:MINimum?

:FETCh:DATA:TELeom:ETHernet:RTD:TIME:MINimum?

Description	This query returns the minimum Round Trip Delay recorded. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Minimum.
Syntax	:FETCh:DATA:TELeom:ETHernet:RTD:TIME:MINimum?
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the minimum Round Trip Delay recorded
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:RTD:TIME:MIN?
See Also	FETCh:DATA:TELeom:ETHernet:RTD:TIME:MAXimum?

:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus?	
Description	This command returns the Connection Status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > TCP Connection Status.
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the connection status. -- indicates the test is not running or results are not available. INPROGRESS indicates that the TCP initialization algorithm is in progress. WAITING indicates on the remote unit that the test is started but the TCP initialization algorithm is not initiated by the local unit. ESTABLISHED indicates that the TCP session has been successfully established between the local and remote units. CLOSING indicates on the TCP protocol is closing down the connection. CLOSED indicates that the session is closed. Either no TCP initialization algorithm has been received, the remote unit has received and completed the request to close the TCP session, or no data has been received at the remote unit for 30 seconds. RIPNFOUND indicates that the local unit didn't received an answer to the ARP request sent to the IP address of the remote unit.
Example(s)	FETC:DATA:TEL:ETH:TCP:CONN:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:EFFiciency?

Description	This query returns the Total Efficiency (%) At *RST condition, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Total Efficiency (%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:EFFiciency?
Response Syntax	<Efficiency>
Response(s)	Efficiency: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total Efficiency (%) At *RST condition, this value is device dependent.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:EFF?
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:AVERage?	
Description	This query returns the Avrage TCP Throughput(%) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Avrage TCP Throughput(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:AVERage?
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Average TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:THR:AVERage?
See Also	FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:LAST?

:FETCh:DATA:TELeom:ETHernet:TCP:STATistics:THRoughput:LAST?

Description	This query returns the Last TCP Throughput(%) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > TCP Throughput(%) > Last
Syntax	:FETCh:DATA:TELeom:ETHernet:TCP:STATistics:THRoughput:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Last TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:THR:LAST?
See Also	FETCh:DATA:TELeom:ETHernet:TCP:STATistics:WINDsize:LAST?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput
:MAXimum:VERDict?

Description	This query returns Maximum TCP Throughput Verdict status At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput % > Maximum Verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Maximum TCP Throughput Verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:TCP:STAT:THRoughput:MAXimum:VERDict?
See Also	SOURce:DATA:TELEcom:ETHernet:TCP:INJection:THReshold?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

Description	This query returns the Maximum TCP Throughput(%) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Maximum TCP Throughput(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum?
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:THR:MAXimum?
See Also	FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MINimum?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MINimum?	
Description	This query returns the Minimum TCP Throughput(%) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Minimum TCP Throughput(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MINimum?
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Minimum TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:THR:MINimum?
See Also	FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?	
Description	This query returns the Total Re-transmitted Frames At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Re transmitted frames.
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total Re-transmitted Frames
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:TRTF?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

SCPI Command Reference

Summary (TCP Throughput)

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?	
Description	This query returns the Total Transmitted Frames At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > transmitted frames
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total Transmitted Frames
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:TTFR?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFRames?

:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:WINDsize:LAST?

Description	This query returns the Last Window Size (Mbytes) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Last
Syntax	:FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:WINDsize:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Last Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:LAST?
See Also	FETCh:DATA:TELEcom:ETHernet:TCP:STATistics:THRoughput:AVERage?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?	
Description	This query returns the Maximum Window Size (Mbytes) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Maximum Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MAXimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MI

Nimum?

Description	This query returns the Minimum Window Size (Mbytes) At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Minimum Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MINimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Summary (Traffic Gen & Mon)

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:STATus:TIME?	
Description	This query returns the time required for a bit to travel from the transmitter back to its receiver after crossing a far-end loopback. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > QoS Metrics
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:STATus:TIME? <wsp><Time>
Parameter(s)	Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the time required for a bit to travel. CURReNT, displays the result of the last latency measurement. LATMIN, displays the minimum latency recorded. LATMAX, displays the maximum latency recorded. AVERAge, displays the average latency value.
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the time required for a bit to travel. CURReNT, displays the result of the last latency measurement. LATMIN, displays the minimum latency recorded. LATMAX, displays the maximum latency recorded. AVERAge, displays the average latency value.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:STAT:TIME? CURR
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:SEConds?

Summary (NI/CSU Emulation)

:FETCh:DATA:TELecom:DSN:LOOPback:STATus?

Description	This query returns the auto-response loopback status At *RST condition, this value is device dependent. Navigation Path: Test > NICSU > Results > Summary > Auto-Response Loopback status Navigation Path: Test > NICSU > Test configurator > Summary > Auto-Response Loopback status
Syntax	:FETCh:DATA:TELecom:DSN:LOOPback:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the auto-response loopback status. 1, auto-response loopback status is active. 0, auto-response loopback status is inactive.
Example(s)	FETC:DATA:TEL:DSN:LOOP:STAT?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

Summary (S-OAM and MPLS-TP OAM)

:FETCh:DATA:TELEcom:SOAM:SUMMary:CCHeck:DOMain:ID:CCM?	
Description	This query returns the Domain Id of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > Domain ID > CCM
Syntax	:FETCh:DATA:TELEcom:SOAM:SUMMary:CCHeck:DOMain:ID:CCM?
Response Syntax	<Domain Id>
Response(s)	Domain Id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Domain Id value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:DOM:ID:CCM?
See Also	FETCh:DATA:TELEcom:SOAM:SUMM:RES:SLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:FORMat?

Description	This query returns whether it is unexpected format of the Domain Id of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > Domain ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:FORMat?
Response Syntax	<Domain Id Format>
Response(s)	Domain Id Format: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Domain Id format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:DOM:ID:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:RAT?

SCPI Command Reference

Summary (S-OAM and MPLS-TP OAM)

:FETCh:DATA:TELecom:SOAM:SUMMARY:CCHeck:MA:NAME:CCM?	
Description	This query returns the MA NAME of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MA Name > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMARY:CCHeck:MA:NAME:CCM?
Response Syntax	<MA Name>
Response(s)	MA Name: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Local MA Name.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MA:NAME:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:STAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAME:FORMat?

Description	This query returns whether it is unexpected format of the MA NAME of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MA Name > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAME:FORMat?
Response Syntax	<MA Name Format>
Response(s)	MA Name Format: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of MA Name format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MA:NAME:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:STAT?

:FETCh:DATA:TELEcom:SOAM:SUMMary:CCHeck:MD:LEVel:CCM?	
Description	This query returns the MD Level of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MID Level > CCM
Syntax	:FETCh:DATA:TELEcom:SOAM:SUMMary:CCHeck:MD:LEVel:CCM?
Response Syntax	<MD Level>
Response(s)	MD Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MD Level. 0, 0 is selected as MD Level 1, 1 is selected as MD Level 2, 2 is selected as MD Level 3, 3 is selected as MD Level 4, 4 is selected as MD Level 5, 5 is selected as MD Level 6, 6 is selected as MD Level 7, 7 is selected as MD Level
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MD:LEV:CCM?
See Also	FETCh:DATA:TELEcom:SOAM:SUMM:CCH:TX:CCM:COUN?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?

Description	This query returns the MEG ID of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MEG ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?
Response Syntax	<MEG Id>
Response(s)	MEG Id: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MEG ID of last received CCM frame.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:ID:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:LOOPback?

:FETCh:DATA:TELecom:SOAM:SUMMARY:CCHeck:MEG:ID:FORMat?	
Description	This query returns whether it is unexpected format of the MEG ID of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MEG ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMARY:CCHeck:MEG:ID:FORMat?
Response Syntax	<MEG Id Format>
Response(s)	MEG Id Format: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of MEG Id format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:ID:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:LOOPback?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel:CCM?

Description	This query returns the MEG Level of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MEG Level > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel:CCM?
Response Syntax	<MEG Level>
Response(s)	MEG Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MEG Level. 0, 0 is selected as MEG Level. 1, 1 is selected as MEG Level. 2, 2 is selected as MEG Level. 3, 3 is selected as MEG Level. 4, 4 is selected as MEG Level. 5, 5 is selected as MEG Level. 6, 6 is selected as MEG Level. 7, 7 is selected as MEG Level.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:LEV:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:TEST?

:FETCh:DATA:TELecom:SOAM:SUMMAry:CCHeck:MEP:ID:CCM?	
Description	This query returns the MEP ID of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > MEP ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:CCHeck:MEP:ID:CCM?
Response Syntax	<MEP Id>
Response(s)	MEP Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Local MEP Id values in hexadecimal format.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEP:ID:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FDEL:MAX?

:FETCh:DATA:TELecom:SOAM:SUMMAry:CCHeck:PERiod:CCM?

Description	This query returns the Period of last received CCM frame. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > Period > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:CCHeck:PERiod:CCM?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Period. P333MS, 3.33 MilliSeconds is selected as period P10MS, 10 MilliSeconds is selected as period P100MS,100 MilliSeconds is selected as period P1S, 1 Second is selected as period P10S, 10 Seconds is selected as period P1MIN, 1 Minute is selected as period P10MIN, 10 Minutes is selected as period
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:PER:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics RX CCM Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > RX CCM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Rx CCM Count.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:RX:CCM:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?

Description	This query returns the Continuity check function shall report a Test Status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity check > Status Continuity Check function shall report the content of the last received CCM frame
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Continuity Check function running Status. LOSSOFCONTINUITY, LOSSOFCONTINUITY is selected as type of Continuity Check function running Status. MISMERGE, MISMERGE is selected as type of Continuity Check function running Status. UNEXPECTEDMEGLEVEL, UNEXPECTEDMEGLEVEL is selected as type of Continuity Check function running Status. UNEXPECTEDMDLEVEL, UNEXPECTEDMDLEVEL is selected as type of Continuity Check function running Status. UNEXPECTEDMEP, UNEXPECTEDMEP is selected as type of Continuity Check function running Status. UNEXPECTEDPERIOD, UNEXPECTEDPERIOD is selected as type of Continuity Check function running Status. RECEIVINGCCMS, RECEIVINGCCMS is selected as type of Continuity Check function running Status.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:STAT?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FDEL:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics summary TX CCM Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Continuity Check > TX CCM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Tx CCM Count.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:TX:CCM:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FLOS:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:LOOPback:RX:LINE:UTILization?

Description	This query returns the RX Line Utilization. At *RST condition, this value Range = 0 to 100%. Navigation Path: Results > Summary > Loopback > RX Line Utilization(%)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:LOOPback:RX:LINE:UTILization?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Rx Line Utilization.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:LOOP:RX:LIN:UTIL?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:FLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELaY:MA Ximum?	
Description	This query returns the Frame Loss Ratio value. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Frame Delay(ms)(Maximum) > Result
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELaY:MAXimum?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame delay maximum value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FDEL:MAX?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:DOM:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDElay:MEASurement?

Description	This query returns the frame delay measurements successful & failed values At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Frame Delay Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDElay:MEASurement? <wsp> <Result>
Parameter(s)	Result: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Successful or failed Frame delay measurement SUCCESSFUL: Successful Frame delay measurement FAILED: failed Frame delay measurement
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FDEL:MEAS? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:RX:CCM:COUN?

:FETCh:DATA:TELecom:SOAM:SUMMAry:RESUltS:FLOs:MEASurement?	
Description	This query returns the frame loss measurements successful & failed values At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Frame Loss Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:RESUltS:FLOs:MEASurement? <wsp><Result>
Parameter(s)	Result: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Successful or failed Frame loss measurement SUCCESSFUL: Successful Frame loss measurement FAILED: failed Frame loss measurement
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame loss successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FLOS:MEAS? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MEG:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMAry:RESuLts:FLOsS:RATio?

Description	This query returns the Frame Delay maximum value. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Frame Loss Ratio > Result (NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:RESuLts:FLOsS:RATio? <wsp> <value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near end or farend Frame loss ratio NEAREND: Successful Frame loss ratio FAREND: failed Frame loss ratio
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame loss ratio Nearend or Farend value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FLOS:RAT? FAREnd
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MA:NAME:CCM?

:FETCh:DATA:TELEcom:SOAM:SUMMary:RESults:LOOPback?	
Description	This query returns the loopbacks successful & failed values At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Loopback
Syntax	:FETCh:DATA:TELEcom:SOAM:SUMMary:RESults:LOOPback? <wsp> <Result>
Parameter(s)	Result: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Successful or failed Loopback measurement SUCCESSFUL: Successful Loopback measurement FAILED: failed Loopback measurement
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:LOOPback? SUCCessful
See Also	FETCh:DATA:TELEcom:SOAM:SUMM:CCH:MEP:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMAry:RESuLts:SLOSs:MEASurement?

Description	This query returns the synthetic loss measurements successful & failed values At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Synthetic Loss Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:RESuLts:SLOSs:MEASurement? <wsp><Result>
Parameter(s)	Result: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Successful or failed Synthetic loss measurement SUCCESSFUL: Successful Synthetic loss measurement FAILED: failed Synthetic loss measurement
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Synthetic loss successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:SLOS:MEAS? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MEG:LEV:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMAry:RESUltS:SLOSs:RATio?	
Description	This query returns the Synthetic Loss Ratio value. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Synthetic Loss Ratio > Result (NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMAry:RESUltS:SLOSs:RATio? <wsp><value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near end or farend Sythetic loss ratio NEAREND: Successful Sythetic loss ratio FAREND: failed Sythetic loss ratio
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic loss ratio Nearend or Farend value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:SLOS:RAT? FAREnd
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MD:LEV:CCM?

:FETCh:DATA:TELEcom:SOAM:SUMMary:RESults:TEST?

Description	This query returns the tests successful & failed values At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Results Summary > Test
Syntax	:FETCh:DATA:TELEcom:SOAM:SUMMary:RESults:TEST? <wsp> <Result>
Parameter(s)	Result: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Successful or failed Test measurement SUCCESSFUL: Successful Test measurement FAILED: failed Test measurement
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:TEST? SUCCessful
See Also	FETCh:DATA:TELEcom:SOAM:SUMM:CCH:PER:CCM?

SCPI Command Reference

Summary (S-OAM and MPLS-TP OAM)

:FETCh:DATA:TELecom:SOAM:SUMMary:TEST:RX:TST:RATE?	
Description	This query returns the Test TST RX Rate. At *RST condition, this value is 0. Navigation Path: Results > Summary > Test > TXT RX Rate
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:TEST:RX:TST:RATE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Rx Rate.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:TEST:RX:TST:RATE?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:RATE?

Summary (FC BERT)

:FETCh:DATA:TELecom:FIBer:RTLatency:AVERage?

Description	This query returns the round trip latency average value (ms). At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Average
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:AVERage?
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the round trip latency average value.
Example(s)	FETC:DATA:TEL:FIB:RTL:AVER?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:RTLatency:LAST?	
Description	This query returns the round trip latency last value (ms). At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Last
Syntax	:FETCh:DATA:TELEcom:FIBer:RTLatency:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the round trip latency last value.
Example(s)	FETC:DATA:TEL:FIB:RTL:LAST?
See Also	FETCh:DATA:TELEcom:ETHernet:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:MAXimum?

Description	This query returns the round trip latency maximum value (ms). At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Maximum
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:MAXimum?
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the round trip latency maximum value.
Example(s)	FETC:DATA:TEL:FIB:RTL:MAX?
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:MINimum?

Description	This query returns the round trip latency minimum value (ms). At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Minimum
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:MINimum?
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the round trip latency minimum value.
Example(s)	FETC:DATA:TEL:FIB:RTL:MIN?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:SAMPles?

Description	This query returns the number of latency data points (ms). At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Samples
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:SAMPles?
Response Syntax	<Samples>
Response(s)	Samples: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of latency data points.
Example(s)	FETC:DATA:TEL:FIB:RTL:SAMP?
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:THReshold:VERDict?	
Description	This query returns the Status of Latency Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Maximum Verdict
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:THReshold:VERDict?
Response Syntax	<STATUS>
Response(s)	STATUS: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Pattern Verdict. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:FIB:RTL:THR:VERD?
See Also	FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELEcom:FIBer:STReam:BYTE:COUNt?

Description	This query returns the total number of bytes transmitted/received on the line. At *RST, this value is device dependent. Navigation Path: Results > Summary > Traffic > Byte Count > Tx / Rx
Syntax	:FETCh:DATA:TELEcom:FIBer:STReam:BYTE:COUNt? <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mode. TX: Transmitter mode. RX: Receiver mode.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of bytes transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:BYTE:COUN? TX
See Also	FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:STReam:ESTimated:BBCRedit?	
Description	This query returns the Estimated BB Credit. At *RST, this value is device dependent. Navigation Path: Results > Summary > Round-Trip Latency > Estimated BB_Credit
Syntax	:FETCh:DATA:TELEcom:FIBer:STReam:ESTimated:BBCRedit?
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the round trip latency threshold value.
Example(s)	FETC:DATA:TEL:FIB:STR:EST:BBCR?
See Also	FETCh:DATA:TELEcom:ETHernet:STATus?

:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:COUNt?

Description	This query returns the number of frames transmitted/received. At *RST, this value is device dependent. Navigation Path: Results > Summary > Traffic > Frame Count > Tx / Rx
Syntax	:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:COUNt? <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mode. TX: Transmitter mode. RX: Receiver mode.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of frames transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:FRAM:COUN? TX
See Also	FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:RATE?	
Description	This query returns frame rate (Frames/s) transmitted/received on the line. At *RST, this value is device dependent. Navigation Path: Results > Summary > Traffic > Frame Rate > Tx / Rx
Syntax	:FETCh:DATA:TELEcom:FIBer:STReam:FRAMe:RATE? <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mode. TX: Transmitter mode. RX: Receiver mode.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame rate (Frames/s) transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:FRAM:RATE? TX
See Also	FETCh:DATA:TELEcom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELEcom:FIBer:STReam:LINE:UTILization?

Description	This query returns line utilization (%). At *RST, this value is device dependent. Navigation Path: Results > Summary > Traffic > Line Utilization > Tx / Rx
Syntax	:FETCh:DATA:TELEcom:FIBer:STReam:LINE:UTILization? <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the mode. TX: Transmitter mode. RX: Receiver mode.
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Line Utilization (%) transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:LINE:UTIL? TX
See Also	FETCh:DATA:TELEcom:FIBer:PORT:FLOGin:STATus?

Summary (RFC 6349)

:FETCh:DATA:TELeom:ETHernet:RFC:ACTConnections?	
Description	This query returns the number of iPerf server active connections. Navigation Path: Results > Summary > Active Connections
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:ACTConnections?
Response Syntax	<Active Connections>
Response(s)	Active Connections: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of iPerf server active connections.
Example(s)	FETC:DATA:TEL:ETH:RFC:ACTC?

:FETCh:DATA:TELeom:ETHernet:RFC:CDEtails?

Description	This query returns the list of active connection details. Navigation Path: Results > Summary > Connection Details
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:CDEtails?
Response Syntax	<Connection Details>
Response(s)	Connection Details: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the list of active Connection Details.
Example(s)	FETC:DATA:TEL:ETH:RFC:CDET?

:FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?	
Description	This query returns the Minimum RTT. At *RST, this value is device dependent. Navigation Path: Results > Summary > Minimum RTT(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?
Response Syntax	<Minimum RTT>
Response(s)	Minimum RTT: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:MIN:RTT? Returns the Minimum RTT
See Also	FETCh:DATA:TELecom:ETHernet:RFC:MTU?

:FETCh:DATA:TELeom:ETHernet:RFC:MTU?

Description	This query returns the Maximum Transfer Unit At *RST, this value is device dependent. Navigation Path: Results > Summary > MTU (Bytes)
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:MTU?
Response Syntax	<MTU>
Response(s)	MTU: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum Transfer Unit.
Example(s)	FETC:DATA:TEL:ETH:RFC:MTU? Returns the Maximum Transfer Unit
See Also	FETCh:DATA:TELeom:ETHernet:RFC:MINimum:RTT?

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:ACTUal:L:VERDict?	
Description	This query returns the average of actual TCP Throughput metric verdict At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Actual L4 verdict.
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:ACTUal:L:VERDict? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the TCP Throughput metric verdict. PASS, Verict is Pass. FAIL, Verdict is Fail. UNDEFINED, Undefined verdict.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:ACTU:L:VERD? LTOR Returns the actual TCP Throughput metric verdict for local to remote.
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

**:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTU
al:L?**

Description	This query returns the average of actual TCP Throughput metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Actual L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Actual L>
Response(s)	Actual L: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average of actual TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:ACTU:L? LTOR Returns the Actual L value for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:WINDow?

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:AVERage:RTT?	
Description	This query returns the Average RTT. At *RST this value is device dependent. Navigation Path: Results>Summary>Average RTT(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:AVERage:RTT? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Average RTT>
Response(s)	Average RTT: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Average RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:AVER:RTT? LTOR

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELaY?

Description	This query returns the ideal Buffer Delay metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Buffer Delay
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELaY? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Buffer delay>
Response(s)	Buffer delay: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Buffer Delay
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:BUFF:DEL? LTOR Returns ideal Buffer Delay metric for local to remote.
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCW Nd?	
Description	This query returns the current CWND TCP Throughput metric. At *RST this value is device dependent. Navigation Path:Results>Summary>Current CWND
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction; LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current CWND>
Response(s)	Current CWND: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the current CWND TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CCWN? LTOR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:L?

Description	This query returns the Current L4 TCP Throughput metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > Current L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:L? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current L4>
Response(s)	Current L4: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Current L4 TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CURR:L? LTOR

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:CURRENT:RTT?	
Description	This query returns the Current RTT. At *RST this value is device dependent. Navigation Path: Results>Summary>Currrent RTT (ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:CURRENT:RTT? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current RTT>
Response(s)	Current RTT: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Current RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CURR:RTT? LTOR
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:MINimum:RTT?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

Description	This query returns the ideal TCP throughput metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Ideal L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Ideal L>
Response(s)	Ideal L: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Ideal L
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:IDE:L? LTOR Returns the Ideal L for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:MAXimum:RTT?	
Description	This query returns the Maximum RTT. At *RST this value is device dependent. Navigation path:Results>Summary>Max RTT(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:MAXimum:RTT? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Maximum RTT>
Response(s)	Maximum RTT: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MAX:RTT? LTOR

**:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCW
Nd?**

Description	This query returns the Max CWND of TCP Throughput Metric. At *RST this value is device dependent. Navigation Path: Results>Summary>Max CWND
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction: LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Max CWND>
Response(s)	Max CWND: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Max CWND of TCP Throughput Metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MCWN? LTOR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd

:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:MINimum:RTT?	
Description	This query returns the Minimum RTT. At *RST this value is device dependent. Navigation Path: Results>Summary> Minimum RTT(ms)
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:MINimum:RTT? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Minimum RTT>
Response(s)	Minimum RTT: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MIN:RTT? LTOR

:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:NOFC
onn?

Description	This query returns the TCP Throughput number of connections. At *RST this value is device dependent. Navigation Path: Results>Summary>Nb Of Connections
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:NOFConn? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<NbOfConn>
Response(s)	NbOfConn: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TCP Throughput number of connections.
Example(s)	FETChDATA:TEL:ETH:RFC:TCP:THR:NOFC? LTOR

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:RWB oost?	
Description	This query returns the recommended window boost metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Recommended Window Boost
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:RWBoost? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote. RTOLocal: Remote to Local.
Response Syntax	<Recommended Window Boost>
Response(s)	Recommended Window Boost: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return the Recommended Window Boost.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:RBW? LTOR Returns recommended Window Boost metric for Locat to Remote.
See Also	FETC:DATA:TEL:ETH:RFC:TCPTH:BUFF:DEL?

:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

Description	This query returns the TCP Efficiency metric. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > TCP Efficiency
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<TCP Efficiency>
Response(s)	TCP Efficiency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the TCP Efficiency metric
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:TCP:EFF? LTOR Returns TCP Efficiency metric value for local to remote.
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THRoughput:THReshold?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THRe shold?	
Description	This query returns the average of actual TCP Throughput threshold. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > TCP Throughput threshold
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Threshold>
Response(s)	Threshold: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average of actual TCP Throughput threshold
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:THR? LTOR Returns TCP Throughput threshold for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DElay?

:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:WINDow?

Description	This query returns the TCP Throughput Total Max Window. At *RST, this value is device dependent. Navigation Path: Results > Summary > TCP Throughput > Window
Syntax	:FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:WINDow? <wsp> <Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Max Window>
Response(s)	Max Window: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Total Max Window
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:WINDOW? RTOL Returns TCP Throuput Total Max Window for remote to local.
See Also	FETCh:DATA:TELeom:ETHernet:RFC:TCP:THRoughput:BUFFer:DElay?

:FETCh:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep:ACTUal:L?	
Description	This query returns the each step average TCP throughput metric At *RST, this value is device dependent. Navigation Path: Results > Summary > Window Sweep > Actual L4
Syntax	:FETCh:DATA:TELEcom:ETHernet:RFC:WINDow:SWEep:ACTUal:L? <wsp> <Step>, <Direction>
Parameter(s)	Step: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the step from 1 to 4 Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Sweep L>
Response(s)	Sweep L: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Window sweep actual L.
Example(s)	FETC:DATA:TEL:ETH:RFC:WIND:SWE:ACTU:L? 1,LTOR Returns the average TCP throughput metric for step1 local to remote.
See Also	FETCh:DATA:TELEcom:ETHernet:RFC:TCP:THROUGHput:ACTUal:L?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost:APPLY

Description	This command applies the Recommended Window Boost factor to the configurable Window Boost Factor. This is an action command and has no default value. Navigation Path: Setup > RFC6349 > Test Configurator > RFC6349 > Apply Recommended Window Boost.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost:APPLY
Response Syntax	<Sweep L>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:RWB:APPL
See Also	SOUR:DATA:TEL:ETH:RFC:REST:DEF

Summary (Link OAM)

:FETCh:DATA:TELEcom:LOAM:ALARm:CURRent?	
Description	This query returns the Current status of the OAM alarms. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Alarms > Current
Syntax	:FETCh:DATA:TELEcom:LOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the current status of the pattern alarm. CRITICALEVENT: Status of Critical Event. DYINGGASP: Status of Dying Gasp. LINKFAULT: Status of Link Fault. LINKOAM: Status of Link OAM.
Response Syntax	<Curr Alarm>
Response(s)	Curr Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return count of Current status of Alarm.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:CURR? LINKOAM
See Also	FETCh:DATA:TELEcom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELecom:LOAM:ALARm:HISTory?

Description	This query returns the history status of the OAM alarms. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Alarms > History
Syntax	:FETCh:DATA:TELecom:LOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the history status of the pattern alarm. CRITICALEVENT: Status of Critical Event. DYINGGASP: Status of Dying Gasp. LINKFAULT: Status of Link Fault. LINKOAM: Status of Link OAM.
Response Syntax	<Hist Alarm>
Response(s)	Hist Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Return count of History status Alarm.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:HIST? LINKOAM
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELecom:LOAM:ALARm:SEConds?	
Description	This query returns the Second of the OAM alarms. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Alarms > Seconds
Syntax	:FETCh:DATA:TELecom:LOAM:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the number of seconds within which the alarm occurred. CRITICALEVENT: No of Seconds Critical Event occurred. DYINGGASP: No of Seconds Dying Gasp Occurred. LINKFAULT: No of Seconds Link Fault Occurred. LINKOAM: Status of Link OAM.
Response Syntax	<Sec Alarm>
Response(s)	Sec Alarm: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return count of No of Seconds Alarm occurred.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:SEC? LINKOAM
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELEcom:LOAM:FRAMe:COUNt:RX?

Description	This query returns the Rx Frame Count. At *RST, this value is device dependent. Navigation Path: Results > Summary > OAMPDU Frame Count > RX
Syntax	:FETCh:DATA:TELEcom:LOAM:FRAMe:COUNt:RX? <wsp><Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RX OAMPDU Frame count. FINFormation: Information Frame Count. FLBack: Loopback Control Count. FTOTal: Total Frame Count. FEVEnt: Total Event Notification Count
Response Syntax	<Rx Frame Count>
Response(s)	Rx Frame Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return Rx frame count of type Information or Loopback Control or Event Notification.
Example(s)	FETC:DATA:TEL:LOAM:FRAM:COUN:RX? FINFormation
See Also	FETCh:DATA:TELEcom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX?	
Description	This query returns the Tx Frame Count. At *RST, this value is device dependent. Navigation Path: Results > Summary > OAMPDU Frame Count > TX
Syntax	:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX? <wsp><Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of TX OAMPDU Frame count. FINformation: Information Frame Count. FLBack: Loopback Control Count. FTOTal: Total Frame Count.
Response Syntax	<Tx Frame Count>
Response(s)	Tx Frame Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return Tx frame count of type Information or Loopback Control or Event Notification.
Example(s)	FETC:DATA:TEL:LOAM:FRAM:COUN:TX? FINformation
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?

Description	This query returns the Fail count status of Remote Loopback for Link OAM. At *RST, this value is device dependent. Navigation Path: Results > Summary > Loopback > Remote > Fail
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?
Response Syntax	<Fail Count>
Response(s)	Fail Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return count of Fail attempt.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT:FAIL?
See Also	FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCEssful?

SCPI Command Reference

Summary (Link OAM)

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCEssful?	
Description	This query returns the Successful count status of Remote Loopback for Link OAM. At *RST, this value is device dependent. Navigation Path: Results > Summary > Loopback > Remote > Successful
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCEssful?
Response Syntax	<Success Count>
Response(s)	Success Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return count of Successful attempt.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT:SUC?
See Also	FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?

Summary (iOptics)

:FETCh:DATA:TELecom:IOPTics:BERT:ALARm:PLOs?

Description	This query returns the Pass/Fail Verdict of P. Loss for Bit Error Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > P.Loss
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:ALARm:PLOs?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Pattern Loss Verdict of connected transceiver. ABSENT: Pattern Loss is not detected. PRESENT: Pattern Loss is detected. HISTORYPRESENT: Pattern Loss was detected previously.
Example(s)	FETC:DATA:TEL:IOPT:BERT:ALAR:PLOS?
See Also	FETC:DATA:TEL:CAUI:ALAR:LANE:HIST?

:FETCh:DATA:TELeom:IOPTics:BERT:COUNT:VERDict?	
Description	This query returns the Pass/Fail Verdict for Count of Bit Error Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Count Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:BERT:COUNT:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Count Verdict of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:BERT:COUN:VERD?
See Also	FETCh:DATA:TELeom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:BERT:COUNT?

Description	This query returns the Bert Count of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Count
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Bit Error Count for Bit Error Test of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:BERT:COUN?
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWeR:MAXimum?

:FETCh:DATA:TELeom:IOPTics:BERT:STATus?	
Description	This query returns the Bit Error Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test
Syntax	:FETCh:DATA:TELeom:IOPTics:BERT:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Bit Error Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:BERT:STAT?
See Also	FETCh:DATA:TELeom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:BERT:VERDict?

Description	This query returns the Pass/Fail Verdict for Bit Error Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Bit Error Test of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:BERT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOsS:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTerface:PINS:VERDict?	
Description	This query returns the Pass/Fail Verdict of Pins of I/O Interface Quick Check Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > Pins > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTerface:PINS:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Pins Verdict. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IINT:PINS:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTERface:QCHeck:TEST:STATus?

Description	This query returns the I/O Interface Quick Check Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTERface:QCHeck:TEST:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the I/O Interface Quick Check Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:IINT:QCH:TEST:STAT? Returns: COMPLETED
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELeom:IOPTics:IINTerface:QCHeck:TEST:VERD ict?	
Description	This query returns the Pass/Fail Verdict of I/O Interface Quick Check Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:IINTerface:QCHeck:TEST:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for I/O Interface Quick Check Test. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IINT:QCH:TEST:VERD? Returns: PASS
See Also	FETCh:DATA:TELeom:SOAM:SLOs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IIINterface:TYPe:VERDict?

Description	This query returns the Pass/Fail Verdict for I2C or MDIO Type Pins of I/O Interface Quick Check Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > I2C or MDIO > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:IIINterface:TYPe:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MDIO or I2C verdict. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IIINT:TYP:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONItoring:CURRent:ACTual?	
Description	This query returns the Actual Current Consumption of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Current(A) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONItoring:CURRent:ACTual?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Current of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:CURR:ACT? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONItoring:POWer:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?

Description	This query returns the Maximum Current Consumption of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Current(A) Maximum
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?
Response Syntax	<MaxCurrent>
Response(s)	MaxCurrent: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Current of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:CURR:MAX? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?	
Description	This query returns the Actual Power Consumption of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Power(W) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:ACT? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:POWer:MAXimu m?	
Description	This query returns the Maximum Power Consumption of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Power(W) Maximum
Syntax	:FETCh:DATA:TELEcom:IOPTics:MONitoring:POWer:MAXimum?
Response Syntax	<MaxPower>
Response(s)	MaxPower: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:MAX? Returns: 1.120000
See Also	FETCh:DATA:TELEcom:IOPTics:MONitoring:CURRent:MAXimum?

:FETCh:DATA:TELecom:IOPTics:MONItoring:POWeR:VERDict?	
Description	This query returns the Pass/Fail Verdict of Power Consumption Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:MONItoring:POWeR:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Power Consumption Test Status of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATUs:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?	
Description	This query returns the Actual Temperature of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Temperature > Temperature(C) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:ACT? Returns: 23
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEMPerature:MAXimum?	
Description	This query returns the Maximum Temperature of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Temperature > Temperature(C) Maximum
Syntax	:FETCh:DATA:TELEcom:IOPTics:MONitoring:TEMPerature:MAXimum?
Response Syntax	<Temperature>
Response(s)	Temperature: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:MAX? Returns: 21
See Also	FETCh:DATA:TELEcom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:VERDict?	
Description	This query returns the Pass/Fail Verdict of Temperature Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Temperature > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Temperature Test Status of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONItoring:TEST:STATus?	
Description	This query returns the Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Test Status
Syntax	:FETCh:DATA:TELecom:IOPTics:MONItoring:TEST:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Test Status for connected transceiver. CALIBRATING: Calibrating in progress NOABORTCONDITION: No Aborted Condition INVALIDDUT: Invalid Device Under Test LASEROFF: Laser is Off LOSSOFSIGNAL: Loss Of Signal SIGNALOVERLOAD: Signal Overload HIGHERPOWERCLASS: Higher Power Class DEVICEPULLED: Device Pulled USERSTOPPED: User Stopped MISSINGDUT: Missing Device Under Test MISSINGTA: Missing TA INVALIDTA: Invalid TA FAILED: Failed
Example(s)	FETC:DATA:TEL:IOPT:MON:TEST:STAT?
See Also	FETCh:DATA:TELecom:IOPTics:IIINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MAXimum:LANE?

Description	This query returns the Maximum Transmitted power for Optical RX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max...
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MAXimum:LANE?
Response Syntax	<MAX>
Response(s)	MAX: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum Transmitted Power Per Lane of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MAX:LANE?
See Also	FETC:DATA:TEL:IOPT:ORX:PTES:MAX:VERD:LANE?

:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MAXimum:VERDict:LANE?

Description	This query returns the Pass/Fail Verdict of Maximum Transmitted power for Optical RX Per Lane Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max... > Max Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MAXimum:VERDict:LANE?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Verdict for Maximum Per Lane Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:VERD:LANE?
See Also	FETCh:DATA:TELeom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Maximum Received power for Optical RX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Maximum Received Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MAX:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MAXimum?	
Description	This query returns the Maximum Received power for Optical RX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MAXimum?
Response Syntax	<Max>
Response(s)	Max: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Received Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MAX? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum:LANE?

Description	This query returns the Minimum Transmitted power for Optical RX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min...
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum:LANE?
Response Syntax	<MIN>
Response(s)	MIN: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum Transmitted Power Per Lane of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MIN:LANE?
See Also	FETC:DATA:TEL:IOPT:ORX:PTES:MIN:VERD:LANE?

:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MINimum:VERDict:LANE?

Description	This query returns the Pass/Fail Verdict of Minimum Transmitted power for Optical RX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Min... > Min Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MINimum:VERDict:LANE?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Verdict for Maximum Per Lane Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:VERD:LANE?
See Also	FETCh:DATA:TELeom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MINimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Minimum Received power for Optical RX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Min Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:ORX:PTESt:MINimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Minimum Received Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MIN:VERD? Returns: PASS
See Also	FETCh:DATA:TELeom:SOAM:SLOs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MINimum?	
Description	This query returns the Minimum Received power for Optical RX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Min
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTES:MINimum?
Response Syntax	<Min>
Response(s)	Min: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Minimum Received Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MIN? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:STATUs?

Description	This query returns the Received power Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:STATUs?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Optical RX Power Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:STAT? Returns: COMPLETED
See Also	FETCh:DATA:TELecom:IOPTics:IIINterface:QCHeck:TEST:STATUs?

:FETCh:DATA:TELecom:IOPTics:ORX:PTES:VERDict?

Description	This query returns the Pass/Fail Verdict of Received power for Optical RX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTES:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Received Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOS:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MAXimum:LANE?

Description	This query returns the Maximum Transmitted power for Optical TX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max...
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MAXimum:LANE?
Response Syntax	<Max>
Response(s)	Max: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum Transmitted Power Per Lane of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:LANE?
See Also	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:VERD:LANE?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict:LANE?	
Description	This query returns the Pass/Fail Verdict of Maximum Transmitted power for Optical TX Per Lane Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max... > Max Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict:LANE?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Verdict for Maximum Per Lane Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:VERD:LANE? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Maximum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Maximum Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MAXimum?	
Description	This query returns the Maximum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MAXimum?
Response Syntax	<Max>
Response(s)	Max: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Maximum Transmitted Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MINimum:LANE?

Description	This query returns the Minimum Transmitted power for Optical TX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min...
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MINimum:LANE?
Response Syntax	<Min>
Response(s)	Min: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum Transmitted Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:LANE?
See Also	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:VERD:LANE?

:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum:VERDict:LANE?	
Description	This query returns the Pass/Fail Verdict of Minimum Transmitted power for Optical TX Power Per Lane Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min... > Min Verdict
Syntax	:FETCh:DATA:TELEcom:IOPTics:OTX:PTESt:MINimum:VERDict:LANE?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Verdict for Minimum Transmitted Power Per Lane of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:VERD:LANE? Returns: PASS
See Also	FETCh:DATA:TELEcom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Minimum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Minimum Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MINimum?	
Description	This query returns the Minimum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:MINimum?
Response Syntax	<Min>
Response(s)	Min: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Minimum Transmitted Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:STATus?

Description	This query returns the Transmitted power Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Optical TX Power Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:STAT? Returns: COMPLETED
See Also	FETCh:DATA:TELecom:IOPTics:IIINterface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:OTX:PTES:VERDict?

Description	This query returns the Pass/Fail Verdict of Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTES:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Transmitted Power of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOS:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Max Skew of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Max Skew Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Max Skew. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:MAX:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELeom:IOPTics:SKEW:MAXimum?	
Description	This query returns the Maximum Skew of Excessive Skew of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Max Skew
Syntax	:FETCh:DATA:TELeom:IOPTics:SKEW:MAXimum?
Response Syntax	<MaxSkew>
Response(s)	MaxSkew: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Max Skew of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:MAX?
See Also	FETCh:DATA:TELeom:IOPTics:MONitoring:CURRent:MAXimum?

:FETCh:DATA:TELecom:IOPTics:SKEW:STATus?

Description	This query returns the Received Excessive Skew Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test Status
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Excessive Skew Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:SKEW:STAT?
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QChEck:TEST:STATus?

:FETCh:DATA:TELeom:IOPTics:SKEW:VERDict?	
Description	This query returns the Pass/Fail Verdict of Excessive Skew Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Verdict
Syntax	:FETCh:DATA:TELeom:IOPTics:SKEW:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict for Excessive Skew Test of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:VERD?
See Also	FETCh:DATA:TELeom:SOAM:SLOSs:STATus:VERDict?

Summary (FlexE)

:FETCh:DATA:TELecom:FETHernet:CLient:THReshold:VERDict?

Description	This query returns status of the verdict, for a given FlexE client. For the client associated with pattern, the verdict is declared 'failed' if any bit error(s), pattern loss, ethernet alarm(s) or FCS error(s) occur. For the other clients, the verdict is declared 'failed' if any ethernet alarm(s) or FCS error(s) occur. Navigation Path: Results -> Summary -> Client
Syntax	:FETCh:DATA:TELecom:FETHernet:CLient:THReshold:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the verdict, for a given FlexE client. PASS, Verdict is pass. FAIL, Verdict is fail. UNDEFINED, Undefined verdict.
Example(s)	FETCh:DATA:TELecom:FETHernet:CLient:THReshold:VERDict?
See Also	SOURce:DATA:TELecom:FETHernet:CLient:IDentifier SOURce:DATA:TELecom:FETHernet:PATtern:CLient:IDentifier SOURce:DATA:TELecom:PATtern:VERDict:DISable SENSe:DATA:TELecom:PATtern:THReshold:COUNt SENSe:DATA:TELecom:PATtern:THReshold:RATE

:SENSe:DATA:TELEcom:ETHernet:PACKet:LINE:RATE?	
Description	This query returns the transmitting/receiving line rate in bit per second (bps). Navigation Path: Results > Summary > FlexE Clients
Syntax	:SENSe:DATA:TELEcom:ETHernet:PACKet:LINE:RATE? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. The signal direction of the line rate RX Specifies the receiving line rate TX Specifies the transmitting line rate
Response Syntax	<Line rate in bps>
Response(s)	Line rate in bps: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. The line rate in bit per second (bps) for the specified direction
Example(s)	SENS:DATA:TEL:ETH:PACK:LINE:RATE? RX
See Also	SENSe:DATA:TELEcom:ETHernet:PACKet:LINE:UTILization?

Summary - Path OAM pop-up (FlexE)

**:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:RX:CCM:COU
Nt?**

Description	This query returns the FlexE Path OAM Continuity Check function RX BAS count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Path OAM Client - Path OAM > Basic OAM - RX BAS Count
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:RX:CCM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the RX CCM count
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:RX:CCM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCStatus?	
Description	This query returns the FlexE Path OAM Continuity check function status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Path OAM Client - Path OAM > Basic OAM - CC Status
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCStatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Continuity Check function status PEND: Pending LOCO: Loss of Continuity UPER: Unexpected Period RMES: Received Message
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:RX:CCST? Returns: PEND
See Also	FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVStatus?

**:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COU
Nt?**

Description	This query returns the FlexE Path OAM Ccontinuity check function TX CCM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary >Basic OAM > TX BAS Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX CCM count
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:TX:CCM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNT?	
Description	This query returns the FlexE Path OAM Client Signal function RX CSM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Client Signal > RX CSM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the RX CSM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:RX:CSM:COUN?

:FETCh:DATA:TELeom:FETHernet:POAM:CSIG:RX:CSSTatus?

Description	This query returns the FlexE Path OAM Client Signal function status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Path OAM > CS Type > Status
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:CSIG:RX:CSSTatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Client Signal function status PENDING: Pending NORMAL: Normal CSTYPE_MISMATCH: CS Type Mismatch
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:RX:CSST? Returns: PENDING
See Also	FETCh:DATA:TELeom:FETHernet:POAM:CVER:RX:CVStatus?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage:COUNT?	
Description	This query returns the FlexE Path OAM Client Signal function TX CSM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Client Signal > TX CSM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX CSM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:TX:CSM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TYPE:REC?

Description	This query returns the FlexE Path OAM received Client Signal type At *RST condition, this value is set to 1. Navigation Path: Results > Summary > Client Signal > CS Type - Received
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TYPE:REC?
Response Syntax	<Client Signal Type>
Response(s)	Client Signal Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Received Client Signal Type
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:TYPE:REC? Returns CSTYPE_SDH
See Also	SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:DAPI:RECeived?	
Description	This query returns the FlexE Path OAM connectivity verification DAPI received message At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Connectivity Verification > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:DAPI:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:DAPI:REC?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COU Nt?	
Description	This query returns the FlexE Path OAM Connectivity Verification function RX CVM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Connectivity Verification > RX CVM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the RX CVM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:RX:CVM:COUN?

SCPI Command Reference

Summary - Path OAM pop-up (FlexE)

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?	
Description	This query returns the FlexE Path OAM Connectivity Verification function status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Connectivity Verification > CV Status
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Connectivity Verification function status PENDING: Pending NORMAL: Normal SAPI_M: SAPI Mismatch DAPI_M: DAPI Mismatch SAPI_DAPI_M: SAPI and DAPI Mismatch
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:RX:CVST? Returns: PENDING
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCStatus?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:SAPI:RECeived?	
Description	This query returns the FlexE Path OAM connectivity verification SAPI received message At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Connectivity Verification > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:SAPI:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:SAPI:REC?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNt?	
Description	This query returns the FlexE Path OAM Connectivity Verification function TX CVM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Connectivity Verification > TX CVM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX CVM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:TX:CVM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:AVERage?	
Description	This query returns the FlexE Path OAM Delay Measurent function Average delay in nanosecond (ns) At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > Delay - Average
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:AVERage?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Delay Measurement Average delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:AVER?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:LAST?

:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:DMR:COU Nt?	
Description	This query returns the FlexE Path OAM Delay Measurent function RX 2DMR count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > RX 2DMR - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:DMR:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the RX 2DMR count
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:DMR:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUnT?

:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:LAST?

Description	This query returns the FlexE Path OAM Delay Measurent function Last delay in nanosecond (ns) At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > Delay - Last
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:LAST?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Delay Measurement Last delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:LAST?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:AVEAge?

:FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:MAXimu m?	
Description	This query returns the FlexE Path OAM Delay Measurent function Maximum delay in nanosecond (ns) At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > Delay - Maximum
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:MAXimum?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Delay Measurement Maximum delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:MAX?
See Also	FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:LAST?

:FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:MINimum?

Description	This query returns the FlexE Path OAM Delay Measurent function Minimum delay in nanosecond (ns) At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > Delay - Minimum
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:MINimum?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Delay Measurement Minimum delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:MIN?
See Also	FETCh:DATA:TELeom:FETHernet:POAM:DELaY:RX:MAXimum?

:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:TX:DMM:COUnT?	
Description	This query returns the FlexE Path OAM Delay Measurent function TX 2DMM count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Delay Measurent > TX 2DMM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:TX:DMM:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX 2DMM count
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:TX:DMM:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNT?

:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:TX:DStatus?

Description	This query returns the FlexE Path OAM Delay Measurement function status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Path OAM
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELaY:TX:DStatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. ABOR: Aborted COMP: Completed IDLE: Idle INPR: In Progress
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:TX:DST?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCStatus?

:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?	
Description	This query returns status of the verdict, for a given FlexE Path OAM. Navigation Path: Results -> Summary -> Path OAM
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the verdict, for FlexE Path OAM. PASS, Verdict is pass. FAIL, Verdict is fail. UNDEFINED, Undefined verdict.
Example(s)	FETC:DATA:TEL:FETH:POAM:THR:VERD?
See Also	FETCh:DATA:TELecom:FETHernet:CLient:THReshold:VERDict?

Summary (1588 PTP (GM))

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:ANNounce:RATE?	
Description	This query returns the Client Announce Message Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Announce Message Rate
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:ANNounce:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Announce Message Rate. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:ANN:RATE?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:MECHanism?

:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:CIDentity?	
Description	This query returns the Client Clock Identity. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Clock Identity
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:CIDentity?
Response Syntax	<ClockIdentity>
Response(s)	ClockIdentity: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Client Clock Identity
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:CID?

:FETCh:DATA:TELeom:PACKetsync:PTP:CINFo:DOMain?

Description	This query returns the Client Domain. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Domain
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:CINFo:DOMain?
Response Syntax	<Domain>
Response(s)	Domain: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Client Domain
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:DOM?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:DREQuest:RATE?	
Description	This query returns the Client Delay Request Message Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Delay Request Message Rate
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:DREQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Sync Message Rate. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:DREQ:RATE?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:MECHanism?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:IP?

Description	This query returns the Client IPv4 Address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > IPv4 Address
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Client IPv4 address in the form of string..
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:IP?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:MECHanism?

:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:IPVersion?	
Description	This query returns the Client IPv6 Address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > IPv6 Address
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:IPVersion?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Client IPv4 address in the form of string.
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:IPV?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:CINFo:MECHanism?

:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:LDURation?

Description	This query returns the Client Lease Duration. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Lease Duration
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:LDURation?
Response Syntax	<Lease Duration>
Response(s)	Lease Duration: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Client Lease Duration.
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:LDUR?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:MECHanism?

:FETCh:DATA:TELeom:PACKetsync:PTP:CINFo:MADDDress?	
Description	This query returns the Client MAC address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > MAC Address
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:CINFo:MADDDress?
Response Syntax	<MACAddress>
Response(s)	MACAddress: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the MAC address.
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:MADD?

:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:MECHanism?

Description	This query returns the Mechanism. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Mechanism
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:MECHanism?
Response Syntax	<Mechanism>
Response(s)	Mechanism: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Mechanism. PTPREQRESP: PtpReqResp as a test type.
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:MECH?

:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:PNUMber?	
Description	This query returns the Client Domain. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Port Number
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:PNUMber?
Response Syntax	<PortNumber>
Response(s)	PortNumber: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Client Port Number
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:PNUM?

:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:SYNC:RATE?

Description	This query returns the Client Sync Message Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Client Info > Sync Message Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:SYNC:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Sync Message Rate. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Example(s)	FETC:DATA:TEL:PACK:PTP:CINF:SYNC:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:CINFo:MECHanism?

SCPI Command Reference

Summary (1588 PTP (GM))

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:REQuest:COUNT?	
Description	This query returns count of announce messages sent by the Slave Clock Navigation Path: Results > Summray > PTP Stats > RX > Signaling Announce Req > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:REQuest:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:REQuest:RATE?	
Description	This query returns rate of announce messages sent by the Slave Clock. Navigation Path: Results > Summray > PTP Stats > RX > Signaling Announce Req > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of announce messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:REQ:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:REQ:COUNt?	
Description	This query returns count of delay request messages sent by the Slave Clock Navigation Path: Results > Summray > PTP Stats > RX > Delay Req > Count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:REQ:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:COUN?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:REQ:RATE?

Description	This query returns rate of delay request messages sent by the Slave Clock. Navigation Path: Results > Summray > PTP Stats > RX > Delay Req > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:REQ:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELaY:REQueSt:RESPOnse:COUNt?	
Description	This query returns count of delay response messages sent by the Slave Clock Navigation Path: Results > Summray > PTP Stats > RX > Signaling Delay Resp Req > Count
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELaY:REQueSt:RESPOnse:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay resp-req messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:RESP:COUN?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DELaY:RESPOnse:COUNt?

**:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:REQuEst:R
ESPOnse:RATE?**

Description	This query returns rate of delay response messages sent by the Slave Clock. Navigation Path: Results > Summray > PTP Stats > RX > Signaling Delay Resp Req > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:REQuEst:RESPOnse:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:RESP:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:REQuest:COUNt?	
Description	This query returns count of Sync messages sent by the Slave Clock Navigation Path: Results > Summray > PTP Stats > RX > Signaling Sync Req > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:REQuest:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:RX:SYNC:REQuest:RATE?

Description	This query returns rate of Sync messages sent by the Slave Clock. Navigation Path: Results > Summray > PTP Stats > RX > Signaling Sync Req > Rate
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:RX:SYNC:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:REQ:RATE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:COUN?	
Description	This query returns count of announce messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Announce > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:COUN?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:COUN?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:GRANt:COUNT?

Description	This query returns count of announce grant messages sent by the Master Clock Navigation Path: Results > Summray > PTP Stats > TX > Signaling Announce Grant > Count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:GRAN:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:GRANt:RATE?	
Description	This query returns rate of announce grant messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Announce > Signaling Announce Grant > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of announce grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:RATE?

Description	This query returns rate of announce messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Announce > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns rate of announce messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESP:COU N?	
Description	This query returns count of delay response messages sent by the master Clock Navigation Path: Results > Summray > PTP Stas > TX > Delay Resp > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESP:COUN?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay response messages sent by the master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:COUN?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESP:RATE?

Description	This query returns rate of delay response messages sent by the master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Delay Resp > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESP:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response messages sent by the master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESPOnse:GRANt:COUNT?	
Description	This query returns count of delay response grant messages sent by the Master Clock Navigation Path: Results > Summray > PTP Stats > TX > Signaling Delay Resp Grant > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESPOnse:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay response grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESPOnse:GRANt:RATE?

Description	This query returns rate of delay response grant messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Signaling Delay Resp Grant > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:RESPOnse:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DENied:COUNT?	
Description	This query returns the number of times a session establishment is rejected by the GM. Navigation Path: Results > Summray > PTP Session > Denied Session Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DENied:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of denied session sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:GRANT:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:FOLL:COUN?

Description	This query returns count of Follow up messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Follow Up > count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:FOLL:COUN?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. returns count of Follow up messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:FOLL:COUN?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:FOLL:RATE?	
Description	This query returns rate of Follow up messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Follow Up > Rate
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:FOLL:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Follow up messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:FOLL:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:COUN?

Description	This query returns count of Sync messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Sync > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:COUN?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:COUN?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:GRANt:COU Nt?	
Description	This query returns count of Sync grant messages sent by the Master Clock Navigation Path: Results > Summray > PTP Ststs > TX > Signaling Sync Grant > Count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:GRAN:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:GRANt:RATE?

Description	This query returns rate of Sync grant messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Signaling Sync Grant > Rate
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:GRAN:RATE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:RATE?	
Description	This query returns rate of Sync messages sent by the Master Clock. Navigation Path: Results > Summray > PTP Stats > TX > Sync > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:RATE?

:SOURce:DATA:TELecom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt

Description	This command sets the 1588 PTP GM Message Impairment status. At *RST condition this value is set to OFF. Navigation Path: Results > Summary > Ptp Session > Interrupt
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt <wsp> <Interrupt>
Parameter(s)	Interrupt: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON: Interrupt is enabled OFF: Interrupt is disabled
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:SESS:MIMP:INT ON

:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt?	
Description	This query returns the 1588 PTP GM Message Impairment status. At *RST condition this value is set to 0. Navigation Path: Results > Summary > Ptp Session > Interrupt
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:INTerrupt?
Response Syntax	<Interrupt>
Response(s)	Interrupt: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. 0: Interrupt is disabled 1: Interrupt is enabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:SESS:MIMP:INT?

:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE

Description	This command sets the 1588 PTP GM Message Impairment type. At *RST condition this value is set to Announce. Navigation Path: Results > Summary > Ptp Session > Message Impairment
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE <wsp> <MessageImpairment>
Parameter(s)	MessageImpairment: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. ANNOUNCE: Message type announce SYNC: Message type sync FOLLOWUP: Message type follow up DELAYRESP: Message type delay response
Response Syntax	<Interrupt>
Example(s)	SOUR:DATA:TEL:PACK:PTP:SESS:MIMP:TYPE SYNC

:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE?	
Description	This query returns the 1588 PTP GM Message Impairment type. At *RST condition this value is set to Announce. Navigation Path: Results > Summary > Ptp Session > Message Impairment
Syntax	:SOURce:DATA:TELEcom:PACKetsync:PTP:SESSion:MIMPairment:TYPE?
Response Syntax	<MessageImpairment>
Response(s)	MessageImpairment: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. ANNOUNCE: Message type announce SYNC: Message type sync FOLLOWUP: Message type follow up DELAYRESP: Message type delay response
Example(s)	SOUR:DATA:TEL:PACK:PTP:SESS:MIMP:TYPE?

Alarms/Errors

:FETCh:DATA:TELEcom:ALARm:CURRent?

Description	This query returns the current status of all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELEcom:ALARm:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all alarms related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, GFPCchannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:ALARm:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current alarmed status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ALAR:CURR? PORT FETC:DATA:TEL:ALAR:CURR? ODU0, 3
See Also	FETCh:DATA:TELecom:ALARm:HISTory? FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELecom:ALARm:HISTory?

Description	This query returns the history status of all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ALARm:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all alarms related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHeRnet, FCHannel, GFPChannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the alarmed history status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ALAR:HIST? PORT FETC:DATA:TEL:ALAR:HIST? ODU0, 3
See Also	FETCh:DATA:TELecom:ALARm:CURRent? FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELEcom:ALARm:SEConds?	
Description	This query returns the number of seconds within which all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELEcom:ALARm:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all alarms related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, GFPChannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of seconds within which the selected test alarms and all the test alarms occurred.
Example(s)	FETC:DATA:TEL:ALAR:SEC? PORT FETC:DATA:TEL:ALAR:SEC? ODU0, 3
See Also	FETCh:DATA:TELEcom:ALARm:HISTory? FETCh:DATA:TELEcom:ALARm:CURRent?

:FETCh:DATA:TELEcom:CAUI:ALARm:GLOBal:CURRent?

Description	This query returns the current status of Interface (Parallel - global) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:CAUI:ALARm:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm. FREQuency: Frequency LOC: LOC Lane
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOB:CURR? FREQ
See Also	FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:HISTory?

:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:HISTory?	
Description	This query returns the history status of Interface (Parallel - global) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency LOC: LOC Lane
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOB:HIST? FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURREnt?

:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:TX:STATus?

Description	This query returns the current status of global CAUI Lanes alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Setup > TX/RX Navigation Path: Setup > OTN SONET/SDH BERT > Test Configurator > Setup > TX/RX
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:TX:STATus?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Current status of CAUI alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOBal:TX:STATus?
See Also	FETCh:DATA:TELecom:OPTical:MODule:STATus?

:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURRent?	
Description	This query returns the current status of Interface (Parallel - per lane) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency LOC: LOC Lane
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:CURR? 1,LOC FETC:DATA:TEL:CAUI:ALAR:LANE:CURR? 1,FREQ
See Also	FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:CURRent?

:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory?

Description	This query returns the history status of Interface (Parallel - per lane) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency LOC: LOC Lane
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:HIST? 1,LOC FETC:DATA:TEL:CAUI:ALAR:LANE:HIST? 1,FREQ
See Also	FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:HISTory?

:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?	
Description	This query returns the number of seconds within which Interface (Parallel - per lane) alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency LOC: LOC Lane
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:SEC? 1,LOC FETC:DATA:TEL:CAUI:ALAR:LANE:SEC? 1,FREQ
See Also	FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:SEConds?

:FETCh:DATA:TELEcom:CPRI:ALARm:CURRent?

Description	This query returns the current status of CPRI alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELEcom:CPRI:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:CURR?
See Also	FETCh:DATA:TELEcom:CPRI:ALARm:HISTory?

:FETCh:DATA:TELecom:CPRI:ALARm:HISTory?	
Description	This query returns the history status of CPRI alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:ALARm:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:HIST?
See Also	FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

:FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

Description	This query returns the number of seconds within which CPRI alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Response Syntax	<seconds>
Response(s)	seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:SEC?
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:ERRor:COUNT?	
Description	This query returns the count of CPRI errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Errors Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS: FAS (CPRI) K307: K30.7 (Interface) 66BBlock: 66B Block (Interface) SYNCHeader : Sync Header (Interface)
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:CPRI:ERR:COUNT? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTERface:ERRor:COUNT?

:FETCh:DATA:TELeom:CPRI:ERRor:CURRent?

Description	This query returns the current status of CPRI error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Errors Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELeom:CPRI:ERRor:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS: FAS (CPRI) K307: K30.7 (Interface) 66BBlock: 66B Block (Interface) SYNCHeader : Sync Header (Interface)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ERR:CURR? FAS
See Also	FETCh:DATA:TELeom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:ERRor:HISTory?

Description	This query returns the history status of CPRI error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Errors Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:ERRor:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS: FAS (CPRI) K307: K30.7 (Interface) 66BBlock: 66B Block (Interface) SYNCHeader : Sync Header (Interface)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ERR:HIST? FAS
See Also	FETCh:DATA:TELEcom:CPRI:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:ERRor:RATE?

Description	This query returns the current rate of CPRI error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Errors Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS: FAS (CPRI) K307: K30.7 (Interface) 66BBlock: 66B Block (Interface) SYNCHeader : Sync Header (Interface)
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:CPRI:ERR:RATE? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTERface:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:ERRor:SEConds?	
Description	This query returns the number of seconds within which CPRI error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > CPRI > Errors Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS: FAS (CPRI) K307: K30.7 (Interface) 66BBlock: 66B Block (Interface) SYNCHeader : Sync Header (Interface)
Response Syntax	<seconds>
Response(s)	seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:CPRI:ERR:SEC? FAS
See Also	FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNT?

Description	This query returns the count of FEC error for CPRI 24.3G. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FEC the error: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total count of FEC error.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:COUN? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent?

Description	This query returns the current status of FEC error for CPRI 24.3G. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FUCW: FEC-UNCOR-CW
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:CURR? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:HISTory?

:FETCh:DATA:TELeom:CPRI:FEC:ERRor:HISTory?

Description	This query returns the history status of FEC error for CPRI 24.3G. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELeom:CPRI:FEC:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FUCW: FEC-UNCOR-CW
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occured during the test. ABSENT: No alarm has occured during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:HIST? FUCW
See Also	FETCh:DATA:TELeom:CPRI:FEC:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE?	
Description	This query returns the rate of FEC error for CPRI 24.3G. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FEC error: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:RATE? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNT?

:FETCh:DATA:TELEcom:CPRI:FEC:ERRor:SEConds?

Description	This query returns the seconds of FEC error for CPRI 24.3G. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:FEC:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FEC the error: FUCW: FEC-UNCOR-CW
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total number of seconds during which errors occur on FEC
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:SEC? FUCW
See Also	FETCh:DATA:TELEcom:CPRI:FEC:ERRor:COUNT?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNT?	
Description	This query returns the count of an Interface (CPRI) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:COUN? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELecom:CPRI:INTErface:ERRor:CURRent?

Description	This query returns the current status of an Interface (CPRI) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTErface:ERRor:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:CURR? CV
See Also	FETCh:DATA:TELecom:CPRI:INTErface:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:INTErface:ERRor:HISTory?	
Description	This query returns the history status of an Interface (CPRI) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTErface:ERRor:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:HIST? CV
See Also	FETCh:DATA:TELecom:CPRI:INTErface:ERRor:CURRent?

:FETCh:DATA:TELeom:CPRI:INTerface:ERRor:RATE?

Description	This query returns the rate of an Interface (CPRI) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELeom:CPRI:INTerface:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of errors.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:RATE? CV
See Also	FETCh:DATA:TELeom:CPRI:ERRor:RATE?

:FETCh:DATA:TELeom:CPRI:INTErface:ERRor:SEConds?	
Description	This query returns the number of seconds within which an Interface (CPRI) error occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELeom:CPRI:INTErface:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:SEC? CV
See Also	FETCh:DATA:TELeom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:OBsai:ALARm:CURRent?

Description	This query returns the current status of OBSAI alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBsai:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RP3: RP3 Address Mismatch
Response Syntax	<Current Status>
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBsai:ALAR:CURR? LOF
See Also	FETCh:DATA:TELecom:CPRI:ALARm:HISTory?

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:HISTory?	
Description	This query returns the history status of OBSAI alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RP3: RP3 Address Mismatch
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ALAR:HIST? LOF
See Also	FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:SEConds?

Description	This query returns the number of seconds within which OBSAI alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LOF RP3: RP3 Address Mismatch
Response Syntax	<seconds>
Response(s)	seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ALAR:SEC? LOF
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:COUNT?	
Description	This query returns the count of OBSAI error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC FAS
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:COUNT? FAS
See Also	FETCh:DATA:TELEcom:CPRI:INTERface:ERRor:COUNT?

:FETCh:DATA:TELecom:CPRI:OBsai:ERRor:CURRent?

Description	This query returns the current status of OBSAI error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBsai:ERRor:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC FAS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBsai:ERR:CURR? FAS
See Also	FETCh:DATA:TELecom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:HISTory?

Description	This query returns the history status of OBSAI error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC FAS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:HIST? FAS
See Also	FETCh:DATA:TELEcom:CPRI:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:OBsai:ERRor:RATE?

Description	This query returns the reate of OBSAI error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBsai:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC FAS
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:CPRI:OBsai:ERR:RATE? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTErface:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:SEConds?	
Description	This query returns the number of seconds within which OBSAI error occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC FAS
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:OBS:ERR:SEC? FAS
See Also	FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:COUNT?

Description	This query returns the count of Interface (OBSAI) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV: CV K307: K30.7
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:COUN? CV
See Also	FETCh:DATA:TELEcom:CPRI:ERRor:COUNT?

:FETCh:DATA:TELEcom:CPRI:OBSai:INTErface:ERRor:CURRent?	
Description	This query returns the current status of Interface (OBSAI) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:INTErface:ERRor:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV: CV K307: K30.7
Response Syntax	<Current Status>
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:CURR? CV
See Also	FETCh:DATA:TELEcom:CPRI:INTErface:ERRor:HISTory?

:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:HISTory?

Description	This query returns the history status of Interface (OBSAI) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV: CV K307: K30.7
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:HIST? CV
See Also	FETCh:DATA:TELEcom:CPRI:INTERface:ERRor:CURRent?

:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:RATE?	
Description	This query returns the current rate of Interface (OBSAI) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV: CV K307: K30.7
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:RATE? CV
See Also	FETCh:DATA:TELEcom:CPRI:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:SEConds?

Description	This query returns the number of seconds within which Interface (OBSAI) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CV: CV K307: K30.7
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:SEC? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNT?	
Description	This query returns the total count within which physical error occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Count
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Media RX error. FCBits: FEC Correctable Bits FUF: FEC Uncorrectable Frames
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Total count of Media RX FEC error for per lane configuration.
Example(s)	FETCh:DATA:TEL:DCO:ERR:MED:RX:COUN? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent?

Description	This query returns the current status of DCO/Media RX FEC error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBits: FEC Correctable Bits FUF: FEC Uncorrectable Frames
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:CURR? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory?	
Description	This query returns the history status of DCO/Media RX FEC error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBits: FEC Correctable Bits FUF: FEC Uncorrectable Frames
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:CURR? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

Description	This query returns the rate value of DCO/Media RX FEC error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Rate
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBits: FEC Correctable Bits FUF: FEC Uncorrectable Frames
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:RATE? FUF
See Also	LINS:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNT?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:SEConds?	
Description	This query returns the number of seconds within which DCO Media RX FEC error occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Seconds
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Media RX FEC error. FUF: FEC Uncorrectable Frames
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total number of seconds for Media RX FEC Error.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:SEC? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

:FETCh:DATA:TELEcom:DSN:ALARm:DS[1..n]:CURRent?

Description	This query returns the current status of DS1/DS3 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELEcom:DSN:ALARm:DS[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS IDLE1: Idle (DS3) OOF RAI: RAI (DS1) RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:CURR? AIS
See Also	SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]:TYPE SOURce:DATA:TELEcom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:HISTory?	
Description	This query returns the history status of DS1/DS3 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS IDLE1: Idle (DS3) OOF RAI: RAI (DS1) RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:HIST? AIS
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:SEConds?

Description	This query returns the number of seconds within which DS1/DS3 alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS IDLE1: Idle (DS3) OOF RAI: RAI (DS1) RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:SEC? AIS
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:COUNT?	
Description	This query returns the count of DS1/DS3 errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:COUN? CRC6
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOUnt SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:CURRent?

Description	This query returns the current status of DS1/DS3 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:CURR? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOUnt SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:HISTory?	
Description	This query returns the history status of DS1/DS3 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:HIST? CRC6
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOUnt SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:RATE?

Description	This query returns the current rate of DS1/DS3 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELEcom:DSN:ERRor:DS[1..n]:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:RATE? CRC6
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOUnt SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:SEConds?	
Description	This query returns the number of seconds within which DS1/DS3 error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:SEC? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOUnt SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:CURRent?

Description	This query returns the current status of electrical Interface alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOS FREQuency: Frequency
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:CURR? FREQ
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURRent? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:HISTory?	
Description	This query returns the history status of electrical Interface error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOS FREQuency: Frequency
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:HIST? FREQ
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURREnt? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:SEConds?

Description	This query returns the number of seconds within which electrical Interface alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ALARm:PORT:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOS FREQuency: Frequency
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:SEC? FREQ
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURREnt? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:COUNT?	
Description	This query returns the count of an electrical Interface error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BPV EXZ
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:COUN? BPV
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUNT SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INject

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:CURRent?

Description	This query returns the current status of an electrical Interface error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BPV EXZ
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:CURR? BPV
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUnt SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INJect

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:HISTory?	
Description	This query returns the history status of an electrical Interface error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BPV EXZ
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:HIST? BPV
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUnt SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:RATE?

Description	This query returns the rate of an electrical Interface error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BPV EXZ
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:RATE? BPV
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUNT SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INject

:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:SEConds?	
Description	This query returns the number of seconds within which and electrical Interface error occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELEcom:ELECtrical:ERRor:PORT:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BPV EXZ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:SEC? BPV
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUnt SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INJect

:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT:TOTal?

Description	This query returns the total count of Ethernet - PCS Lanes (EoOTN) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors - Total
Syntax	:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT:TOTal? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. eturns the total count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:COUN:TOTal? OTNBIP8
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT?	
Description	This query returns the count of Ethernet - PCS Lanes (EoOTN) errors (per lane). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:COUN? 1, OTNBIP8
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Ethernet - PCS Lanes (EoOTN) error (per lane). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:CURR? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?	
Description	This query returns the history status of Ethernet - PCS Lanes (EoOTN) error (per lane). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:HIST? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE:TOTal?

Description	This query returns the total rate of Ethernet - PCS Lanes (EoOTN) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the total error rate.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:RATE:TOTal? OTNBIP8
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE?

Description	This query returns the current rate of Ethernet - PCS Lanes (EoOTN) error (per lane). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:RATE? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:RATE? 1, OTNBIP8
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:SEConds?

Description	This query returns the number of seconds within which Ethernet - PCS Lanes (EoOTN) error occurred (per lane). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:SEConds? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:SEC? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNT?

:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:CURRent?	
Description	This query returns the current status of Ethernet (EoOTN) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAR: L Fault Rcd LFAD: L Fault Det RFAult: Remote Fault
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:CURR? RFA
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:HISTory?

Description	This query returns the history status of Ethernet (EoOTN) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAR: L Fault Rcd LFAD: L Fault Det RFault: Remote Fault
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:HIST? RFA
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:SEConds?	
Description	This query returns the number of seconds within which Ethernet (EoOTN) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:ETHernet:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAR: L Fault Rcd LFAD: L Fault Det RFAult: Remote Fault
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:SEC? RFA
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:COUNT?

Description	This query returns the count of Ethernet (EoOTN) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: SYMBol: Symbol IDLE: Idle FCARrier: False Carrier
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:COUNT? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:CURRent?	
Description	This query returns the current status of Ethernet (EoOTN) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: SYMBol: Symbol IDLE: Idle FCARrier: False Carrier
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:CURR? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:HISTory?

Description	This query returns the history status of Ethernet (EoOTN) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:ETHernet:ERRor:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: SYMBol: Symbol IDLE: Idle FCARrier: False Carrier
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:HIST? IDLE
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:RATE?	
Description	This query returns the current rate of Ethernet (EoOTN) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: SYMBol: Symbol IDLE: Idle FCARrier: False Carrier
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:RATE? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:SEConds?

Description	This query returns the number of seconds within which Ethernet (EoOTN) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: SYMBol: Symbol IDLE: Idle FCARrier: False Carrier
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:SEC? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent?	
Description	This query returns the current status of Transcoding alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: HIBER1027B: Hi-BER1027B LOBL1027B LOAML1027B
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:CURR? LOBL1027B
See Also	FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent?

:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?	
Description	This query returns the history status of Transcoding alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: HIBER1027B: Hi-BER1027B LOBL1027B LOAML1027B
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:HIST? LOBL1027B
See Also	FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:EOTN:XCODIng:TRANscode:RX:ALARm:SEConds?	
Description	This query returns the number of seconds within which Transcoding alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELEcom:EOTN:XCODIng:TRANscode:RX:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: HIBER1027B: Hi-BER1027B LOBL1027B LOAML1027B
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:SEC? LOBL1027B
See Also	FETCh:DATA:TELEcom:EOTN:XCODIng:TRANscode:RX:ERRor:SEConds?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:COUNT?

Description	This query returns the count of Transcoding errors. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: INVALFLAG: Inv. Flag MSEQV POSV SEQV
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:COUN? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent?

Description	This query returns the current status of Transcoding error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Ethernet (Ethernet) > Transcoding > Errors Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: INVALFLAG: Inv. Flag MSEQV OTNBIP8: OTN BIP-8 (PCS Lanes) PCSBIP8MASK: PCS BIP-8 Mask (PCS Lanes) POSV SEQV
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:CURR? PCSBIP8MASK
See Also	FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent?

**:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:
HISTory?**

Description	This query returns the history status of the EOTN error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > Transcoding > Errors Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: INVALFLAG: Inv. Flag MSEQV OTNBIP8: OTN BIP-8 (PCS Lanes) PCSBIP8MASK: PCS BIP-8 Mask (PCS Lanes) POSV SEQV
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:HIST? PCSBIP8MASK
See Also	FETCh:DATA:TELEcom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?

:FETCh:DATA:TELeom:EOTN:XCODing:TRANscode:RX:ERRor:RATE?

Description	This query returns the rate value of the EOTN error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELeom:EOTN:XCODing:TRANscode:RX:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: INVALFLAG: Inv. Flag MSEQV POSV SEQV
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. eturns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:RATE? PCSBIP8MASK
See Also	FETCh:DATA:TELeom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds?

Description	This query returns the seconds value of the EOTN error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: INVALFLAG: Inv. Flag MSEQV POSV SEQV
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:SEC? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds?

:FETCh:DATA:TELecom:ERRor:COUNT:TOTal?	
Description	This query returns the total count of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:COUNT:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. Retrieves all error related to OTL, XCODING, or PCS.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the total error count for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:COUN:TOT? OTL
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:CURREnt? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:RATE?

:FETCh:DATA:TELecom:ERRor:COUNT?

Description	This query returns the count of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:COUNT? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHeTnet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTeRn, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Count>

:FETCh:DATA:TELecom:ERRor:COUnT?

Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the error count for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:COUN? ODU3 FETC:DATA:TEL:ERR:COUN? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:CURRent? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:RATE?

:FETCh:DATA:TELeom:ERRor:CURRent?

Description	This query returns the current status of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELeom:ERRor:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:ERRor:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current error status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ERR:CURR? ODU3 FETC:DATA:TEL:ERR:CURR? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:RATE? FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELEcom:ERRor:HISTory?

Description	This query returns the history status of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELEcom:ERRor:HISTory? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:ERRor:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the error history status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ERR:HIST? ODU3 FETC:DATA:TEL:ERR:HIST? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:CURRent? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:RATE? FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERRor:RATE:TOTal?

Description	This query returns the total current rate of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:RATE:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. Retrieves all error related to OTL, XCODING, or PCS.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the total current error rate for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:RATE:TOT? OTL
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:CURREnt? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERROr:RATE?	
Description	This query returns the current rate of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERROr:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHeRnet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTeRn, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Rate>

:FETCh:DATA:TELecom:ERRor:RATE?

Response(s)	Rate: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current error rate for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:RATE? ODU3 FETC:DATA:TEL:ERR:RATE? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:CURRent? FETCh:DATA:TELecom:ERRor:SEConds? FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELEcom:ERRor:SEConds?	
Description	This query returns the number of seconds within which all errors related to the test such as Ethernet, Pattern and Other occurred. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELEcom:ERRor:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATtern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:ERRor:SEConds?

Response(s)	Seconds: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of seconds within which the selected test errors and all the test errors occurred.
Example(s)	FETC:DATA:TEL:ERR:SEC? ODU3 FETC:DATA:TEL:ERR:SEC? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory? FETCh:DATA:TELecom:ERRor:CURRent? FETCh:DATA:TELecom:ERRor:RATE? FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:CURRent?

Description	This query returns the current status of Ethernet alarm (rates up to 25G or FlexE client). At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Alarms Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: HIBer: Hi-BER LDOWn: Link Down LFADult: Local Fault LFAD: L Fault Det LFAR: L Fault Rcd RFADult: Remote Fault LOBL: LOBL HILFER: Hi-LFER
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:CURR? LDOWN
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory? SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier

**:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTo
ry?**

Description This query returns the history status of the Ethernet alarm (rates up to 25G or FlexE client).
At *RST condition, this value is set to device-dependent.
Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms

Syntax :FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory? <wsp> <Alarm>

Parameter(s) **Alarm:**
The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
Selects the alarm:
HIBer: Hi-BER
LDOWn: Link Down
LFAult: Local Fault
LFAD: L Fault Det
LFAR: L Fault Rcd
RFAult: Remote Fault
LOBL: LOBL
HILFER: Hi-LFER

Response Syntax <History>

Response(s) **History:**
The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
Reports the history status of ethernet alarm.
PRESENT, indicates that at least one alarm has occurred.
ABSENT, indicates that no alarm occurred.
INACTIVE, indicates that the test did not run yet.

Example(s) FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:HIST? LDOWN

See Also FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
SOURce:DATA:TELecom:FETHernet:CLient:IDentifier

:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:SEConds?	
Description	This query returns the number of seconds within which an Ethernet alarm occurred (rates up to 25G or FlexE client). At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Alarms Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:LRATe:GLOBal:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: HIBer: Hi-BER LDOWn: Link Down LFault: Local Fault LFAD: L Fault Det LFAR: L Fault Rcd RFault: Remote Fault LOBL: LOBL HILFER: Hi-LFER
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of ethernet alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:SEC? LDOWN
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory? SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier

:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:CURRent?

Description	This query returns the current status of Ethernet (FlexE Client) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRAFFIC: No Traffic.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:MAC:CURR? NTRAFFIC

:FETCh:DATA:TELEcom:ETHernet:ALARm:MAC:HISTory?	
Description	This query returns the history status of Ethernet (FlexE Client) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:MAC:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRAFFIC: No Traffic
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ALAR:ERR:MAC:HIST? NTRAFFIC

:FETCh:DATA:TELeom:ETHernet:ALARm:MAC:SEConds?

Description	This query returns the number of seconds within which Ethernet (FlexE Client) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELeom:ETHernet:ALARm:MAC:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRAFFIC:No Traffic
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:MAC:SEC? NTRAFFIC

:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:CURRent?	
Description	This query returns the current status of PCS Lanes (per lane) alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:CURRent? <wsp> <Lane> , <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOAML LOBL SKEW: Exc. Skew
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:CURR? 1, LOBL
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of Ethernet/PCS (global) alarm (parallel interfaces or serial interfaces 25G and up). At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Alarms Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms
Syntax	:FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:GLOBal:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: - For parallel/serial interfaces: HiSer: Hi-SER LOA - For parallel interfaces: HiBer: Hi-BER INVM: Inv. Mapping LDSErD: L Deg SER Det (400G) LDSErR: L Deg SER Rcd (400G) LDOWn: Link Down LFAD: L Fault Det LFAR: L Fault Rcd LOAML LOBL RDSER: R Deg SER (400G) RFault: Remote Fault SKEW: Exc. Skew
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:CURR? LOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HIStory?

Description This query returns the history status of Ethernet/PCS (global) alarm (parallel interfaces or serial interfaces 25G and up).
At *RST condition, this value is set to device-dependent.
Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms

Syntax :FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HIStory? <wsp> <Alarm>

Parameter(s) **Alarm:**
The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
Selects the alarm:
- For parallel/serial interfaces:
HISer: Hi-SER
LOA
- For parallel interfaces:
HIBer: Hi-BER
INVM: Inv. Mapping
LDSERD: L Deg SER Det (400G)
LDSERR: L Deg SER Rcd (400G)
LDOWn: Link Down
LFAD: L Fault Det
LFAR: L Fault Rcd
LOAML
LOBL
RDSER: R Deg SER (400G)
RFAult: Remote Fault
SKEW: Exc. Skew

Response Syntax <History>

**:FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:GLOBal:HI
STory?**

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:HIST? LOA
See Also	FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

**:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SE
Conds?**

Description	This query returns the number of seconds within which Ethernet/PCS (global) alarm occurred (parallel interfaces or serial interfaces 25G and up). At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Alarms Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: - For parallel/serial interfaces: HiSer: Hi-SER LOA - For parallel interfaces: HiBer: Hi-BER INVM: Inv. Mapping LDSErD: L Deg SER Det (400G) LDSErR: L Deg SER Rcd (400G) LDOWn: Link Down LFAD: L Fault Det LFAR: L Fault Rcd RDSER: R Deg SER (400G) RFault: Remote Fault
Response Syntax	<Seconds>

**:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SE
Conds?**

Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:SEC? LOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:HISTory?

Description	This query returns the history status of PCS Lanes (per lane) alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOAML LOBL SKEW: Exc. Skew
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:HIST? 1, LOBL
See Also	FETCh:DATA:TELeom:ETHernet:ALARm:PHYSical:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?	
Description	This query returns the number of seconds within which PCS Lanes (per lane) alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOAML LOBL SKEW: Exc. Skew
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:SEC? 1, LOBL
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:CURRent?

Description	This query returns the current status of FEC Lanes (per lane) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOAML: FEC-LOAML FECSKEW: FEC Exc. Skew <Current Status>
Response Syntax	
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available. MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:CURR? FCLOAML
See Also	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:CURRent?	
Description	This query returns the current status of RS-FEC alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOA: FEC-LOA FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available. MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:CURR? FCLOA
See Also	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

**:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:HISTo
ry?**

Description	This query returns the history status of RS-FEC alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOA: FEC-LOA FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:HIST? FCLOA
See Also	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:SECo nds?	
Description	This query returns the number of seconds within which RS-FEC alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:SECo nds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOA: FEC-LOA FECDESER: FEC Degraded SER
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:SEC? FCLOA
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory?

Description	This query returns the history status of FEC Lanes (per lane) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOAML: FEC-LOAML FECSKEW: FEC Exc. Skew
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:HIST? FCLOAML
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:SEConds?	
Description	This query returns the number of seconds within which FEC Lanes (per lane) alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:SEConds? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FCLOAML: FEC-LOAML FECSKEW: FEC Exc. Skew
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:SEC? FCLOAML
See Also	:FETCh:DATA:TELEcom:ETHernet:ALARm:RSFec:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

Description	This query returns the current status of WIS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AISL: AIS-L AISP: AIS-P EPCD: EPC-D EPPD: EPP-D EPSD: EPS-D LCDP: LCD-P LOPP: LOP-P LOF PLMP: PLM-P RDIL: RDI-L RDIP: RDI-P SEF UNEQp: UNEQ-P WLINK: WIS Link Down
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:CURR? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

Description	This query returns the history status of WIS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AISL: AIS-L AISP: AIS-P EPCD: EPC-D EPPD: EPP-D EPSD: EPS-D LCDP: LCD-P LOPP: LOP-P LOF PLMP: PLM-P RDIL: RDI-L RDIP: RDI-P SEF UNEQp: UNEQ-P WLINK: WIS Link Down
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:HIST? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds?

Description	This query returns the number of seconds within which WIS alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AISL: AIS-L AISP: AIS-P EPCD: EPC-D EPPD: EPP-D EPSD: EPS-D LCDP: LCD-P LOPP: LOP-P LOF PLMP: PLM-P RDIL: RDI-L RDIP: RDI-P SEF UNEQp: UNEQ-P WLINK: WIS Link Down
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:SEC? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:History?

:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:CURRent?

Description	This query returns the current status of the Client Frequency alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CFRequency: Client Frequency
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:CURR? CFR
See Also	FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm: SEConds?

:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory?

Description	This query returns the history status of the Client Frequency alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CFrequency: Client Frequency
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:HIST? CFR
See Also	FETCh:DATA:TELecom:ETHernet:COFFset:ALARm: SEConds?

:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:SEConds?	
Description	This query returns the number of seconds within which a Client Frequency alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CFRequency: Client Frequency
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:SEC? CFR
See Also	FETCh:DATA:TELEcom:ETHernet:COFFset:ALARm: HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:COUNT?

Description	This query returns the count of QoS Metrics per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece.
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:COUNT? <wsp><Service>,<Metric>,<Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number from 1 to 10. Metric: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the metric: FLOSs: Frame Loss OUTSequence: Out-of-Seq Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:COUN? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYScal:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:CURRent?	
Description	This query returns the current status of QoS Metrics per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:CURRent? <wsp><Stream>, <Metric>, <Direction>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number from 1 to 10. Metric: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the metric: FLOSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Current>

**:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer
:CURRent?**

Response(s)

Current:
The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
Returns the current status:
PRESENT: An error has occurred in the last second.
ABSENT: No error has occurred in the last second.
INACTIVE: No test result available.

Example(s)

FETC:DATA:TEL:ETH:ERR:DUAL:SAN:CURR? 1, FLOSs,P1TOP2

See Also

FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:HISTory?	
Description	This query returns the history status of QoS Metrics per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:HISTory? <wsp> <Service>, <Metric>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Slects the service number from 1 to 10. Metric: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the metric: FLOSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<History>

**:FETCh:DATA:TELecom:ETHeRnet:ERRor:DUALport:SANalyzer
:HISTory?**

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:HIST? 1, FLOSS,P1TOP2
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:RATE?	
Description	This query returns the current rate of QoS Metrics per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece - Rate
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:RATE? <wsp> <Service>, <Metric>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number from 1 to 10. Metric: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the metric: FLOSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:RATE? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSiCal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:SEConds?

Description	This query returns the number of seconds of QoS Metric occurrences per direction for dual port. At *RST condition, this value is device dependent. Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece - Seconds
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:DUALport:SANalyzer:SEConds? <wsp> <Service>, <Metric>, <Direction>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the service number from 1 to 10. Metric: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the metric: FLOsS: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port direction: P1TOP2: P1 to P2 P2TOP1: P2 to P1
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:SEC? 1, FLOsS,P1TOP2
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT

:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:COUNT?	
Description	This query returns the count of IP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: IPChecksum: IP Chksum
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:COUN? IPCH
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:COUNT?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?	
Description	This query returns the current status of IP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: IPCHecksum: IP Chksum
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:CURR? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:HISTory?

Description	This query returns the history status of IP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: IPChecksum: IP Chksum
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:HIST? IPCH
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:RATE?

Description	This query returns the rate of IP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: IPChecksum: IP Chksum
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:RATE? IPCH
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?	
Description	This query returns the number of seconds within which IP error occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > IP Checksum
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: IPCHecksum: IP Chksum
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:SEC? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:COUNT?

Description	This query returns the count of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: BLOCK or 66B BLOCK or 65B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of ethernet error.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:COUN? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELecom:FETHernet:CLient:IDentifier

:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:CURRent?	
Description	This query returns the current status of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: BLOCK or 66B BLOCK or 65B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Current Status>
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of ethernet error. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:CURR? BLOCK
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier

**:FETCh:DATA:TELeom:ETHernet:ERRor:LRATe:GLOBal:HISTor
y?**

Description	This query returns the history status of the specified error (rates up to 25G or FlexE client)s. Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELeom:ETHernet:ERRor:LRATe:GLOBal:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: BLOCK or 66B BLOCK or 65B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of ethernet error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:HIST? BLOCK
See Also	FETCh:DATA:TELeom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELeom:FETHernet:CLient:IDentifier

:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:RATE?	
Description	This query returns the rate of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:LRATe:GLOBal:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: BLOCK or 66B BLOCK or 65B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the rate of ethernet error.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:RATE? BLOCK
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:PHYSical:GLOBal:HISTory? LOA SOURce:DATA:TELEcom:FETHernet:CLient:IDentifier

**:FETCh:DATA:TELeom:ETHernet:ERRor:LRATe:GLOBal:SECon
ds?**

Description	This query returns the cumulative duration in seconds of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELeom:ETHernet:ERRor:LRATe:GLOBal:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: BLOCK or 66B BLOCK or 65B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the Seconds of ethernet error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:SEC? BLOCK
See Also	FETCh:DATA:TELeom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELeom:FETHernet:CLient:IDentifier

:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:COUNT?	
Description	This query returns the count of Ethernet error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence. JABBer: Jabber/Giant. OVERsize: Oversize. RUNT: Runt. UNDersize: Undersize. ALIGNment: Alignment.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:COUN? JABB
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:CURRent?

Description	This query returns the current Ethernet error status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence. JABBer: Jabber/Giant. OVERsize: Oversize. RUNT: Runt. UNDersize: Undersize. ALIGNment: Alignment.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of MAC error. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that there is no error. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:CURR? JABB
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:HISTory?	
Description	This query returns the history Ethernet error status. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence. JABBer: Jabber/Giant. OVERsize: Oversize. RUNT: Runt. UNDersize: Undersize. ALIGNment: Alignment.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of MAC error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:HIST? JABB
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:RATE?

Description	This query returns the current Ethernet error rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence. JABBer: Jabber/Giant. OVERsize: Oversize. RUNT: Runt. UNDersize: Undersize. ALIGNment: Alignment.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the current rate of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:RATE? JABB
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:SEConds?	
Description	This query returns the number of Ethernet error seconds. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Ethernet > Error Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence. JABBer: Jabber/Giant. OVERsize: Oversize. RUNT: Runt. UNDersize: Undersize. ALIGNment: Alignment.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:SEC? JABB
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:MAC:COUNT?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNT:Total?

Description	This query returns the total count within which physical error occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNT:Total? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of PCS error. BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Inv. Marker FCCW: FEC Correctable Codeword FSERR: FEC SYMBOL FUCW: FEC Uncorrectable Code Words FUF: FEC Uncorrectable Frames ICWM: Invalid Codeword Marker PFBE: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total count of PCS/FEC error for per lane configuration.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:COUN:TOT? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNT?

Description	This query returns the count of Ethernet / PCS Lanes (per lane) errors. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNT? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FSERR: FEC SYMBOL INVALIDMARKER: Invalid Marker PFBE: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:COUN? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Ethernet / PCS Lanes (per lane) error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:CURRent? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Invalid Marker
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:CURR? 1, BIP8
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of Ethernet/PCS (global) error (parallel interfaces or serial interfaces 25G and up). At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Inv. Marker FUCW: FEC Uncorrectable Code Words FUF: FEC Uncorrectable Frames ICWM: Inv-CW-Marker
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:GLOB:CURR? BIP8
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:HISTory?

**:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HIS
Tory?**

Description	This query returns the history status of Ethernet/PCS (global) error (parallel interfaces or serial interfaces 25G and up). At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Inv. Marker FUCW: FEC Uncorrectable Code Words FUF: FEC Uncorrectable Frames ICWM: Inv-CW-Marker
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:GLOB:HIST? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?	
Description	This query returns the history status of Ethernet / PCS Lanes (per lane) error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Invalid Marker
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:HIST? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:RATE:TOTal?

Description	This query returns the total current rate of Ethernet / PCS Lanes (per lane) error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:RATE:TOTal? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Invalid Marker FUCW: FEC Uncorrectable Code Words FUF: FEC Uncorrectable Frames FCCW: FEC Correctable Codeword FSERR: FEC Symbol ICWM: Invalid Codeword Marker PFBE: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:RATE:TOT? BIP8
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?	
Description	This query returns the current rate of Ethernet / PCS Lanes (per lane) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE? <wsp> <Error>, <Alarm>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FSERR: FEC SYMBOL INVALIDMARKER: Invalid Marker PFBE: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:RATE? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

**:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:SEConds:T
OTal?**

Description	This query returns the total number of seconds within which physical error occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:SEConds:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of PCS error. BLOCK: Block or 66B Block for 40G/100G/400G FUCW: FEC Uncorrectable Code Words FUF: FEC Uncorrectable Frames ICWM: Invalid Codeword Marker
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Total number of seconds during which errors occur on PCS lanes
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:SEC:TOT? BLOCK
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:COUNT:TOTAL?

:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:SEConds?	
Description	This query returns the number of seconds within which Ethernet / PCS Lanes error (per lane) occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIP8: BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G INVALIDMARKER: Invalid Marker
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:SEC? 1, BIP8
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:COUNt?

Description	This query returns the count of FEC Lanes (per lane) errors. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:COUNt? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker PREFECBIT: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:COUN? 1,FCSY
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:l:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:CURRent?

Description	This query returns the current status of FEC Lanes (per lane) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:CURRent? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker PREFECBIT: Pre-FEC-Bit
Response Syntax	<Current Status>
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available. MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:CURR? FCSY
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFecI:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:COUNT?

Description	This query returns the count within which an RS-FEC error occurred At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RS-FEC error FCCW: FEC-CORR-CW FUCW: FEC-UNCORR-CW
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of an RS-FEC error
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:COUN? FCCW
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:CURRent?	
Description	This query returns the current status of an RS-FEC error At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RS-FEC error FCCW: FEC-CORR-CW FUCW: FEC-UNCORR-CW
Response Syntax	<Current Status>
Response(s)	Current Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of an RS-FEC error PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet. MASKED, indicates that an alarm/error of higher priority is present
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:CURR? FCCW
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTor
y?

Description	This query returns the history status of an RS-FEC error At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RS-FEC error FCCW: FEC-CORR-CW FUCW: FEC-UNCORR-CW
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of an RS-FEC error PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:HIST? FCCW
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:RATE?	
Description	This query returns the rate within which an RS-FEC error occurred At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RS-FEC error FCCW: FEC-CORR-CW FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the rate of an RS-FEC error
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:RATE? FCCW
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:SECon
ds?

Description	This query returns the number of seconds within which an RS-FEC error occurred At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of RS-FEC error FCCW: FEC-CORR-CW FUCW: FEC-UNCORR-CW
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the Seconds of an RS-FEC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:SEC? FCCW
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:COUnT?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:HISTory?	
Description	This query returns the history status of FEC Lanes (per lane) error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:HISTory? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker PREFECBIT: Pre-FEC-Bit
Response Syntax	<History Status>
Response(s)	History Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:HIST? FCSY
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:CURREnt?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:RATE?

Description	This query returns the current rate of FEC Lanes (per lane) errors. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:RATE? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker PREFECBIT: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:RATE? 1,FCSY
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:SEConds?	
Description	This query returns the number of seconds within which FEC Lanes (per lane) error occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:SEConds? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker PREFECBIT: Pre-FEC-Bit
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:SEC? FCSY
See Also	:FETCh:DATA:TELEcom:ETHernet:ERRor:RSFec:COUNT?

:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

Description	This query returns the current status of QoS Metrics error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > QoS Metrics > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOSs: Frame Loss OUTSequence: Out-of-Seq
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:STR:CURR? FLOS
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:HISTory?

Description	This query returns the history status of QoS Metrics error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > QoS Metrics > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOSs: Frame Loss OUTSequence: Out-of-Seq
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:STR:HIST? FLOS
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:STReam:CURRent?

:FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:COUNT?

Description	This query returns the count of TCP (TCP Chksum) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:COUN?
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?	
Description	This query returns the current status of TCP (TCP Chksum) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:CURR?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNT?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?

Description	This query returns the history status of TCP (TCP Chksum) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:HIST?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:RATE?	
Description	This query returns the rate of TCP (TCP Chksum) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:RATE?
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:TCPProtocol:CURRent?

**:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SECond
s?**

Description	This query returns the number of seconds within which TCP (TCP Cheksum) At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:SEC?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNT?	
Description	This query returns the count of UDP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: UDPChecksum: UDP Cheksum
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:COUN? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNT?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?	
Description	This query returns the current status of UDP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: UDPChecksum: UDP Cheksum
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:CURR? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?	
Description	This query returns the history status of UDP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: UDPChecksum: UDP Cheksum
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:HIST? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:RATE?	
Description	This query returns the rate of UDP error. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: UDPChecksum: UDP Cheksum
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:RATE? UDPC
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:SEConds?	
Description	This query returns the number of seconds within which UDP alarm occurred. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:UDPProtocol:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: UDPChecksum: UDP Cheksum
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:SEC? UDPC
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:IPPRotocol:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:COUNT?

Description	This query returns the count of WIS errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B1 B2 B3 REIL: REI-L REIP: REI-P
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:COUN? REIP
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:CURRent?	
Description	This query returns the current status of WIS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B1 B2 B3 REIL: REI-L REIP: REI-P
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:CURR? REIP
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:SEConds?

:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:HISTory?

Description	This query returns the history status of WIS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:WIS:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B1 B2 B3 REIL: REI-L REIP: REI-P
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:HIST? REIP
See Also	FETCh:DATA:TELEcom:ETHernet:ALARm:WIS:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE?	
Description	This query returns the current rate of WIS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B1 B2 B3 REIL: REI-L REIP: REI-P
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:RATE? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUnT?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds?

Description	This query returns the number of seconds within which WIS error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B1 B2 B3 REIL: REI-L REIP: REI-P
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:SEC? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:CURRent?

:FETCh:DATA:TELecom:FETHernet:GROUp:ALARm:CURRent?	
Description	This query returns the current status of GlexE Group alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms
Syntax	:FETCh:DATA:TELecom:FETHernet:GROUp:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CALMIS: Calendar Mismatch GRPDOWN: FlexE Group Down ILLCL: Illegal Client INCONSISTCAL: Inconsistent Calendar
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:CURR? GRDOWN

:FETCh:DATA:TELeom:FETHernet:GROup:ALARm:HISTory?

Description	This query returns the history status of GlexE Group alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms
Syntax	:FETCh:DATA:TELeom:FETHernet:GROup:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CALMIS: Calendar Mismatch GRPDOWN: FlexE Group Down ILLCL: Illegal Client INCONSISTCAL: Inconsistent Calendar
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:HIST? GRDOWN

:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:SEConds?	
Description	This query returns the number of seconds within which GlexE Group alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CALMIS: Calendar Mismatch GRPDOWN: FlexE Group Down ILLCL: Illegal Client INCONSISTCAL: Inconsistent Calendar
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:SEC? INCONSISTCAL

:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:CURRent?

Description	Returns the current state of a FlexE per PHY Alarm. Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:CURRent? <wsp><PHY Number / Instance number>, <Alarm>
Parameter(s)	PHY Number / Instance number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Incase of 400G, this parameter will behave as instance number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY alarm. EXCESPHYSKEW: Excessive PHY Skew alarm. LOSSFLOCK: Loss of Frame Lock alarm. LOSSMFLOCK: Loss of Multiframe Lock alarm. LOSSPHYNBLOCK: Loss of PHY Number Lock alarm. GRPNBMIS: Group Number Mismatch alarm. REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of FlexE per PHY alarm. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:CURR? 22,EXCESPHYSKEW

:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:HISTory?	
Description	Returns the history state of a FlexE per PHY Alarm. Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:HISTory? <wsp><PHY Number/ Instance number>, <Alarm>
Parameter(s)	PHY Number/ Instance number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information Incase of 400G, this parameter will behave as instance number Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY alarm. EXCESPHYSKEW: Excessive PHY Skew alarm. LOSSFLOCK: Loss of Frame Lock alarm. LOSSMFLOCK: Loss of Multiframe Lock alarm. LOSSPHYNBLOCK: Loss of PHY Number Lock alarm. GRPNBMIS: Group Number Mismatch alarm. REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of FlexE per PHY alarm. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:HIST? 22,LOSSFLOCK

:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:SEConds?

Description	This query returns the number of seconds within which the Flexe per PHY alarm occurred. Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms - Seconds
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ALARm:SEConds? <wsp><PHY Number / Instance Number>, <Alarm>
Parameter(s)	PHY Number / Instance Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information Incase of 400G, this parameter will behave as instance number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY alarm. EXCESPHYSKEW: Excessive PHY Skew alarm. LOSSFLOCK: Loss of Frame Lock alarm. LOSSMFLOCK: Loss of Multiframe Lock alarm. LOSSPHYNBLOCK: Loss of PHY Number Lock alarm. GRPNBMIS: Group Number Mismatch alarm. REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. returns the number of seconds within which the Flexe Group alarm occurred.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:SEC? 22,LOSSPHYNBLOCK

:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:COUNT?	
Description	Returns the count of FlexE per PHY Error. Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Count
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:COUNT? <wsp><PHY Number>, <Error>
Parameter(s)	PHY Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY error. OHCRc: Invalid OH CRC error.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:COUN? 123,OHCRc

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent?

Description	Returns the current state of a FlexE per PHY Error. Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent? <wsp> <PHY Number>, <Error>
Parameter(s)	PHY Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY error. OHCRc: Invalid OH CRC error.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of FlexE per PHY error. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:CURR? 123,OHCRc

:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:HISTory?	
Description	Returns the history state of a FlexE per PHY Error. Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:HISTory? <wsp><PHY Number>, <Error>
Parameter(s)	PHY Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY error. OHCRRC: Invalid OH CRC error.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of FlexE per PHY error. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:HIST? 123,OHCRRC

:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:RATE?

Description	Returns the current rate of a FlexE per PHY Error. Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Rate
Syntax	:FETCh:DATA:TELEcom:FETHernet:PHY:ERRor:RATE? <wsp><PHY Number>, <Error>
Parameter(s)	PHY Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY error. OHCRc: Invalid OH CRC error.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current rate of a FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:RATE? 123,OHCRc

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds?	
Description	Returns the number of seconds of FlexE per PHY Error. Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds? <wsp><PHY Number>, <Error>
Parameter(s)	PHY Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the PHY number from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexE per PHY error. OHCRc: Invalid OH CRC error.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:SEC? 123,OHCRc

:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Basic OAM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - Current
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: BCSLF: Basic OAM Client Signal Local Fault BCSLPI: Basic OAM Client Signal Low Power Indication BCSRF: Basic OAM Client Signal Remote Fault BLOCONT: Basic OAM Loss Of Continuity BRDI: Basic OAM Remote Defect Indication BUPER: Basic OAM Unexpected Period
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:CURR? BLOCONT

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:HISTory?	
Description	This query returns the history status of the specified FlexE Path OAM Basic OAM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: BCSLF: Basic OAM Client Signal Local Fault BCSLPI: Basic OAM Client Signal Low Power Indication BCSRF: Basic OAM Client Signal Remote Fault BLOCONT: Basic OAM Loss Of Continuity BRDI: Basic OAM Remote Defect Indication BUPER: Basic OAM Unexpected Period
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:HIST? BLOCONT

**:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ALARm:SECo
nds?**

Description	This query returns the number of seconds within which the specified FlexE Path OAM Basic OAM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - Seconds
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ALARm:SECONDS? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: BCSLF: Basic OAM Client Signal Local Fault BCSLPI: Basic OAM Client Signal Low Power Indication BCSRF: Basic OAM Client Signal Remote Fault BLOCONT: Basic OAM Loss Of Continuity BRDI: Basic OAM Remote Defect Indication BUPER: Basic OAM Unexpected Period
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:SEC? BLOCONT

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt?	
Description	This query returns the count of the specified FlexE Path OAM Basic OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:COUN? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNt?

:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ERRor:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Basic OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Current
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ERRor:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:CURR? BBIP8
See Also	FETCh:DATA:TELeom:FETHernet:POAM:ERRor:CURRent?

:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ERRor:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM Basic OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM> Basic OAM > Errors - History
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:BOAM:ERRor:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:HIST? BBIP8
See Also	FETCh:DATA:TELeom:FETHernet:POAM:ERRor:HISTory?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?

Description	This query returns the rate of the specified FlexE Path OAM Basic OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Rate
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:RATE? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds?	
Description	This query returns the number of seconds within which the specified FlexE Path OAM Basic OAM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:SEC? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds?

:FETCh:DATA:TELeom:FETHernet:POAM:CSIGnal:ALARm:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Client Signal alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - Current
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:CSIGnal:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CSTYPEM: Client Signal type Mismatch
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:CURR? CSTM

:FETCh:DATA:TELEcom:FETHernet:POAM:CSIGnal:ALARm:HIS Tory?	
Description	This query returns the history status of the specified FlexE Path OAM Client Signal alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - History
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:CSIGnal:ALARm:HIStory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CSTYPEM: Client Signal type Mismatch
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:HIST? CSTM

**:FETCh:DATA:TELeom:FETHernet:POAM:CSIGnal:ALARm:SE
Conds?**

Description	This query returns the number of seconds within which the specified FlexE Path OAM Client Signal alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - Seconds
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:CSIGnal:ALARm:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CSTYPEM: Client Signal type Mismatch
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:SEC? CSTM

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:CURRent?	
Description	This query returns the current status of the specified FlexE Path OAM Connectivity Verification alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - Current
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DAPIMismatch: Dapi Mismatch SAPIMismatch: Sapi Mismatch
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:CURR? DAPIMi

**:FETCh:DATA:TELeom:FETHernet:POAM:CVER:ALARm:HISTo
ry?**

Description	This query returns the history status of the specified FlexE Path OAM Connectivity Verification alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - History
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:CVER:ALARm:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DAPIMismatch: Dapi Mismatch SAPIMismatch: Sapi Mismatch
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:HIST? DAPIM

:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:SECo nds?	
Description	This query returns the number of seconds within which the specified FlexE Path OAM Connectivity Verification alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - Seconds
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:CVER:ALARm:SECo nds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DAPIMismatch: Dapi Mismatch SAPIMismatch: Dapi Mismatch
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:SEC? DAPIM

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNT?

Description	This query returns the count of the specified FlexE Path OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:COUN? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNT?

:FETCh:DATA:TELEcom:FETHernet:POAM:ERRor:CURRent?	
Description	This query returns the current status of the specified FlexE Path OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Current
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:ERRor:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:CURR? PCRC4
See Also	FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:CURRent?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM> Errors - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:HIST? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?	
Description	This query returns the rate of the specified FlexE Path OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Rate
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:RATE? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?

:FETCh:DATA:TELEcom:FETHernet:POAM:ERRor:SEConds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Seconds
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:ERRor:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:SEC? PCRC4
See Also	FETCh:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:SEConds?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:CURRent?	
Description	This query returns the current status of Fibre Channel alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAult: Local Fault LFAD: Local Fault Detected (FC 10X) LFAR: Local Fault Received (FC 10X) RFAult: Remote Fault (FC 10X) LOCWS: LOCWS (FC 32X) RD: RD (64X)
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:CURR? LDOW Returns the current status of physical alarm.
See Also	FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:HISTory?

Description	This query returns the history status of Fibre Channel alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAult: Local Fault LFAD: Local Fault Detected (FC 10X) LFAR: Local Fault Received (FC 10X) RFAult: Remote Fault (FC 10X) LOCWS: LOCWS (FC 32X) RD: RD (64X)
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:HIST? LDOW
See Also	FETCh:DATA:TELecom:SOAM:ALARm:CURRent?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:SEConds?	
Description	This query returns the number of seconds within which Fibre Channel alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LDOWn: Link Down LFAult: Local Fault LFAD: Local Fault Detected (FC 10X) LFAR: Local Fault Received (FC 10X) RFAult: Remote Fault (FC 10X) LOCWS: LOCWS (FC 32X) RD: RD (64X)
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:SEC? LDOW
See Also	FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNT?

Description	This query returns the count of Fibre Channel errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCS OVERsize: Oversize UNDersize: Undersize
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:COUN? OVER Returns the count of FC error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSiCal:COUNT?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent?	
Description	This query returns the current status of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCS OVERsize: Oversize UNDersize: Undersize
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:CURR? OVER Returns the current FC status.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELEcom:FIBer:ERRor:FC:HISTory?

Description	This query returns the history status of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELEcom:FIBer:ERRor:FC:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCS OVERsize: Oversize UNDersize: Undersize
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:HIST? OVER Returns the history status of FC error.
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELeom:FIBer:ERRor:FC:RATE?	
Description	This query returns the current rate of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELeom:FIBer:ERRor:FC:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCS OVERsize: Oversize UNDersize: Undersize
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:RATE? OVER Returns the current rate of FC error.
See Also	FETCh:DATA:TELeom:FIBer:ERRor:PHYsical:RATE?

:FETCh:DATA:TELEcom:FIBer:ERRor:FC:SEConds?

Description	This query returns the number of seconds within which Fibre Channel error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELEcom:FIBer:ERRor:FC:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCS OVERsize: Oversize UNDersize: Undersize
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:SEC? OVER Returns the number of seconds of FC error.
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:PHYsical:SEConds?

:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:COUNT?	
Description	This query returns the count of Fibre Channel errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: Block (FC 10X/16X) or 66B BLOCK (FC 32X) SYMBOL: Symbol (FC 1X/2X/4X/8X) FCCW: FEC-COR-CW (FC 32X) FUCW: FEC-UNCOR-CW (FC 32X) PFSErr: Pre-FEC-SYMB (FC 32X)
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:COUN? BLOC Returns the count of physical error.
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:FC:COUNT?

:FETCh:DATA:TELeom:FIBer:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELeom:FIBer:ERRor:PHYSical:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCk: Block (FC 10X/16X) or 66B BLOCk (FC 32X) SYMBol: Symbol (FC 1X/2X/4X/8X) FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:CURR? BLOC Returns the current status of physical error.
See Also	FETCh:DATA:TELeom:FIBer:ERRor:FC:CURRent?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory?	
Description	This query returns the history status of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: Block (FC 10X/16X) or 66B BLOCK (FC 32X) SYMBOL: Symbol (FC 1X/2X/4X/8X) FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:HIST? BLOC Returns the history status of physical error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:FC:HISTory?

:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:RATE?

Description	This query returns the current rate of Fibre Channel error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: Block (FC 10X/16X) or 66B BLOCK (FC 32X) SYMBOL: Symbol (FC 1X/2X/4X/8X) FCCW: FEC-COR-CW (FC 32X) FUCW: FEC-UNCOR-CW (FC 32X) PFSErr: Pre-FEC-SYMB (FC 32X)
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:RATE? BLOC Returns the current rate of physical error.
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:FC:RATE?

:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:SEConds?	
Description	This query returns the number of seconds within which Fibre Channel error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCK: Block (FC 10X/16X) or 66B BLOCK (FC 32X) SYMBOL: Symbol (FC 1X/2X/4X/8X) FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:SEC? BLOC
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:FC:SEConds?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:COUNT?

Description	This query returns the count of FEC error for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose count is to be retrieved. FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:COUN? CORR
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:COUNT?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURR?	
Description	This query returns the current status of FEC error for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURR? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error whose status is to be retrieved. FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of FEC error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:CURR? CORR
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:CURRent?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory?

Description	This query returns the history status of FEC error for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error whose status is to be retrieved. FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of FEC error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:HIST? FCCW
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNT?	
Description	This query returns the count of FEC error for a specified lane for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNT? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose count is to be retrieved. FCSymb: FEC correctable symbol error
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:COUN? 1, SYMB
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNT?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:CURRent?

Description	This query returns the current status of FEC Lane error for a specified lane for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:CURRent? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose status is to be retrieved. FCSymb: FEC correctable symbol error
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of FEC error for the specified lane. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:CURR? 1, SYMB
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:CURRent?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory?	
Description	This query returns the history status of FEC Lane error for a specified lane for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose status is to be retrieved. FCSYmb: FEC correctable symbol error
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of FEC error for the specified lane. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:HIST? 1, FCSY
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:RATE?

Description	This query returns the rate of FEC error for a specified lane for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:RATE? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose rate is to be retrieved. FCSymb: FEC correctable symbol error
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the rate of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:RATE? 1, SYMB
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:RATE?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:SEConds?	
Description	This query returns the number of seconds within which the FEC error occurred for a specified lane for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:SEConds? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose number of seconds in error is to be retrieved. FCSymb: FEC correctable symbol error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:SEC? 1, SYMB
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:SEConds?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:RATE?

Description	This query returns the rate of FEC error for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose rate is to be retrieved. FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the rate of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:RATE? CORR
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:RATE?

:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:SEConds?	
Description	This query returns the number of seconds within which the FEC error occurred for FlexO BERT. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FEC:ERRor:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose number of seconds in error is to be retrieved. FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:SEC? CORR
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:LANE:SEConds?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent?

Description	This query returns the current status of FOIC alarm. Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm whose status is to be retrieved. LOA: Loss of Alignment
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of FOIC alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:CURR? LOA
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:CURRent?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:HISTory?

Description	This query returns the history status of FOIC alarm. Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm whose status is to be retrieved LOA: Loss of Alignment
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of FOIC alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:HIST? LOA
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:HISTory?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:CURRent?

Description	This query returns the current status of FOIC Lane alarm for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:CURRent? <wsp> <Lane Number>, <Alarm>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. EXCessiveSKEW: Excessive Skew LOAML: Loss of Alignment Marker Lock
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of FOIC alarm for the specified lane. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:CURR? 1, LOAML
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:CURRent?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory?	
Description	This query returns the history status of FOIC Lane alarm for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory? <wsp><Lane Number>, <Alarm>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. EXCessiveSKEW: Excessive Skew LOAML: Loss of Alignment Marker Lock
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of FOIC alarm for the specified lane. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:HIST? 1, LOAML
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds?

Description	This query returns the number of seconds within which the FOIC alarm occurred for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds? <wsp><Lane Number>, <Alarm>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose number of seconds in alarm is to be retrieved. EXCessiveSKEW: Excessive Skew LOAML: Loss of Alignment Marker Lock
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of FOIC alarm for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:SEC? 1, LOAML
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:SEConds?	
Description	This query returns the number of seconds within which the FOIC alarm occurred. Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose number of seconds in alarm is to be retrieved. LOA: Loss of Alignment
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of FOIC alarm.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:SEC? LOA
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:COUnT?

Description	This query returns the count of FOIC error for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:COUnT? <wsp> <Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose count is to be retrieved. INVMARKER: Invalid Marker
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the count of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:COUN? 1, INVMARKER
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:RATE?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent?	
Description	This query returns the current status of FOIC Lane error for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent? <wsp> <Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose status is to be retrieved. INVMARKER: Invalid Marker
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of FOIC error for the specified lane. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:CURR? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:HISTory?

Description	This query returns the history status of FOIC Lane error for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:HISTory? <wsp> <Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose status is to be retrieved. INVMARKER: Invalid Marker
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the history status of FOIC error for the specified lane. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:HIST? 1, INVMARKER
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:CURRent?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:RATE?	
Description	This query returns the rate of FOIC error for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:RATE? <wsp> <Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose rate is to be retrieved. INVMARKER: Invalid Marker
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Reports the rate of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:RATE? 1, INVMARKER
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:SEConds?

:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:SEConds?

Description	This query returns the number of seconds within which the FOIC error occurred for a specified lane. Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:SEConds? <wsp><Lane Number>, <Error>
Parameter(s)	Lane Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error type whose number of seconds in error is to be retrieved. INVMARKER: Invalid Marker
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the number of seconds of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:SEC? 1, INVMARKER
See Also	FETCh:DATA:TELEcom:FOTN:FOIC:ERRor:LANE:HISTory?

:FETCh:DATA:TELEcom:FOTN:GROUp:ALARm:CURRent?	
Description	Returns the current state of a FlexO Group Alarm. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:GROUp:ALARm:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO Group alarm. GRPDOWN: FlexO Group Down
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of FlexO Group alarm. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:CURR? GRPDOWN
See Also	FETCh:DATA:TELEcom:FOTN:GROUp:ALARm:HISTory? FETCh:DATA:TELEcom:FOTN:GROUp:ALARm:SEConds? FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:CURRent?

:FETCh:DATA:TELecom:FOTN:GROUp:ALARm:HISTory?

Description	Returns the history state of a FlexO Group Alarm. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:GROUp:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO Group alarm GRPDOWN: FlexO Group Down
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history state of FlexO Group alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:HIST? GRPDOWN
See Also	FETCh:DATA:TELecom:FOTN:GROUp:ALARm:CURRent? FETCh:DATA:TELecom:FOTN:GROUp:ALARm:SEConds? FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?

:FETCh:DATA:TELEcom:FOTN:GROup:ALARm:SEConds?	
Description	Returns the number of seconds within which the FlexO Group alarm occurred. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms > Seconds
Syntax	:FETCh:DATA:TELEcom:FOTN:GROup:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO Group alarm GRPDOWN: FlexO Group Down
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds within which the FlexO Group alarm occurred.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:SEC? GRPDOWN
See Also	FETCh:DATA:TELEcom:FOTN:GROup:ALARm:CURRent? FETCh:DATA:TELEcom:FOTN:GROup:ALARm:HISTory? FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:SEConds?

:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:CURRent?

Description	Returns the current state of a FlexO Instance Alarm. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:CURRent? <wsp> <Instance ID>, <Alarm>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance alarm. LOM: Loss Of Multiframe OOM: Out Of Multiframe GIDM: Group ID Mismatch IIDM: Instance ID Mismatch MAPMismatch: MAP Mismatch RPF: Remote PHY Fault EXCESINSTSKEW: Excessive Instance Skew alarm <Current>
Response Syntax	
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of FlexO instance alarm. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ALAR:CURR? 28,LOM
See Also	FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:HISTory? FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:SEConds? FETCh:DATA:TELEcom:FOTN:GROUp:ALARm:CURRent?

:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:HISTory?	
Description	Returns the history state of a FlexO instance Alarm. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms
Syntax	:FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:HISTory? <wsp><Instance ID>, <Alarm>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance alarm. LOM: Loss Of Multiframe OOM: Out Of Multiframe GIDM: Group ID Mismatch IIDM: Instance ID Mismatch MAPMismatch: MAP Mismatch RPF: Remote PHY Fault EXCESINSTSKEW: Excessive Instance Skew alarm
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of FlexO instance alarm. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ALAR:HIST? 28,LOM
See Also	FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:CURRent? FETCh:DATA:TELEcom:FOTN:INSTance:ALARm:SEConds? ETCh:DATA:TELEcom:FOTN:GROup:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?

Description	This query returns the number of seconds within which the FlexO instance alarm occurred. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms > Seconds
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds? <wsp><Instance ID>, <Alarm>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance alarm. LOM: Loss Of Multiframe OOM: Out Of Multiframe GIDM: Group ID Mismatch IIDM: Instance ID Mismatch MAPMismatch: MAP Mismatch RPF: Remote PHY Fault EXCESINSTSKEW: Excessive Instance Skew alarm
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds within which the FlexO instance alarm occurred.
Example(s)	FETC:DATA:TEL:FOTN:INST:ALAR:SEC?28,LOM
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory? FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent? FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNT?	
Description	Returns the count of FlexO instance Error. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Count
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNT? <wsp><Instance ID>, <Error>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance error. MFAS: Multi-frame error OHCRC: Invalid OH CRC error
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of FlexO instance error
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:COUN?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATE? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?

Description	Returns the current state of a FlexO instance Error. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent? <wsp><Instance ID>, <Error>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance error. MFAS: Multi-frame error OHCRC: Invalid OH CRC error
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of FlexO instance error. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:CURR?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNT? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATE? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:HISTory?	
Description	Returns the history state of a FlexO instance Error. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors
Syntax	:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:HISTory? <wsp><Instance ID>, <Error>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance error. MFAS: Multi-frame error OHCRC: Invalid OH CRC error
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of FlexO instance error. PRESENT, indicates that at least one alarm has occurred in the last second. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:HIST?28,OHCRC
See Also	FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:CURRent? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:COUNT? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:RATE? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATE?

Description	Returns the current rate of a FlexO instance Error. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Rate
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATE? <wsp> <Instance ID>, <Error>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance error. MFAS: Multi-frame error OHCRC: Invalid OH CRC error
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current rate of a FlexO instance error.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:RAT?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNT? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory? FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SECConds?

:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:SEConds?	
Description	Returns the number of seconds of FlexO instance Error. Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Seconds
Syntax	:FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:SEConds? <wsp><Instance ID>, <Error>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which we want to retrieve the information. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FlexO instance error. MFAS: Multi-frame error OHCRC: Invalid OH CRC error
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of FlexO instance error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:SEC?28,OHCRC
See Also	FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:CURRent? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:COUNT? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:HISTory? FETCh:DATA:TELEcom:FOTN:INSTance:ERRor:RATE?

:FETCh:DATA:TELeom:GFP:ALARm:CHANnel:CURRent?

Description	This query returns the current status of GFP (Payload) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELeom:GFP:ALARm:CHANnel:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CMF: GFP-User-Define CMF DCI: GFP-DCI FDI: GFP-FDI LOCCS: GFP-LOCCS LOCS: GFP-LOCS RDI: GFP-RDI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:CURR? LOCS
See Also	FETCh:DATA:TELeom:GFP:ALARm:CHANnel:HISTory?

:FETCh:DATA:TELeom:GFP:ALARm:CHANnel:HISTory?	
Description	This query returns the history status of GFP (Payload) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELeom:GFP:ALARm:CHANnel:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CMF: GFP-User-Define CMF DCI: GFP-DCI FDI: GFP-FDI LOCCS: GFP-LOCCS LOCS: GFP-LOCS RDI: GFP-RDI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:HIST? LOCS
See Also	FETCh:DATA:TELeom:GFP:ALARm:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:SEConds?

Description	This query returns the number of seconds within which GFP (Payload) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: CMF: GFP-User-Define CMF DCI: GFP-DCI FDI: GFP-FDI LOCCS: GFP-LOCCS LOCS: GFP-LOCS RDI: GFP-RDI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:SEC? LOCS
See Also	FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?	
Description	his query returns the current status of GFP (Core Header) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: EXM: GFP-EXM LFD: GFP-LFD UPM: GFP-UPM
Response Syntax	<current>
Response(s)	current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:CURR? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory?

Description	This query returns the history status of GFP (Core Header) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: EXM: GFP-EXM LFD: GFP-LFD UPM: GFP-UPM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:HIST? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:SEConds?	
Description	This query returns the number of seconds within which GFP (Core Header) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: EXM: GFP-EXM LFD: GFP-LFD UPM: GFP-UPM
Response Syntax	<seconds>
Response(s)	seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:SEC? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:FETCh:DATA:TELeom:GFP:ERRor:CHANnel:COUNt?

Description	This query returns the count of GFP (Payload) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELeom:GFP:ERRor:CHANnel:COUNt? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TCORRect: GFP-tHEC-CORR SUPERBLOCKCORR: GFP-SB-CORR ECORRect: GFP-eHEC-CORR SUPERBLOCKUNCORR: GFP-SB-UNCORR GFP10BERR: GFP-10B_ERR PFCS: GFP-pFCS
Response Syntax	<COUNT>
Response(s)	COUNT: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:COUN? TCORR
See Also	FETCh:DATA:TELeom:GFP:ERRor:CHANnel:RATE?

:FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:CURRent?	
Description	This query returns the current status of GFP (Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TCORRect: GFP-tHEC-CORR SUPERBLOCKCORR: GFP-SB-CORR ECORRect: GFP-eHEC-CORR SUPERBLOCKUNCORR: GFP-SB-UNCORR GFP10BERR: GFP-10B_ERR PFCS: GFP-pFCS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:CURR? TCORR
See Also	FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:HISTory?

:FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:HISTory?

Description	This query returns the history status of GFP (Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TCORRect: GFP-tHEC-CORR SUPERBLOCKCORR: GFP-SB-CORR ECORRect: GFP-eHEC-CORR SUPERBLOCKUNCORR: GFP-SB-UNCORR GFP10BERR: GFP-10B_ERR PFCS: GFP-pFCS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of error Analysis for Channel. PRESENT, indicates that at least one GFP error is present. ABSENT, indicates that there is no GFP error INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:HIST? TCORR
See Also	FETCh:DATA:TELEcom:GFP:ERRor:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?	
Description	This query returns the current rate of GFP (Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TCORRect: GFP-tHEC-CORR SUPERBLOCKCORR: GFP-SB-CORR ECORRect: GFP-eHEC-CORR SUPERBLOCKUNCORR: GFP-SB-UNCORR GFP10BERR: GFP-10B_ERR PFCS: GFP-pFCS
Response Syntax	<RATE>
Response(s)	RATE: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:RATE? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUNT?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds?

Description	This query returns the number of seconds within which GFP (Payload) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TCORRect: GFP-tHEC-CORR SUPERBLOCKCORR: GFP-SB-CORR ECORRect: GFP-eHEC-CORR SUPERBLOCKUNCORR: GFP-SB-UNCORR GFP10BERR: GFP-10B_ERR PFCS: GFP-pFCS
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:SEC? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNT?	
Description	This query returns the count of GFP (Core Header and Payload) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<COUNT>
Response(s)	COUNT: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:COUN? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent?

Description	This query returns the current status of GFP (Core Header and Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<current>
Response(s)	current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:CURR? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory?

:FETCh:DATA:TELEcom:GFP:ERRor:FRAMe:HISTory?

Description	This query returns the history status of GFP (Core Header and Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELEcom:GFP:ERRor:FRAMe:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:HIST? CORR
See Also	FETCh:DATA:TELEcom:GFP:ERRor:FRAMe:CURRent?

:FETCh:DATA:TELeom:GFP:ERRor:FRAMe:RATE?

Description	This query returns the current rate of GFP (Core Header and Payload) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELeom:GFP:ERRor:FRAMe:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<RATE>
Response(s)	RATE: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:RATE? CORR
See Also	FETCh:DATA:TELeom:GFP:ERRor:FRAMe:COUNt?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds?	
Description	This query returns the number of seconds within which GFP (Core Header and Payload) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<seconds>
Response(s)	seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:SEC? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELeom:OPTical:ALARm:PORT:GLOBal:CURRent?

Description	This query returns the current status of Interface (Parallel - global) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELeom:OPTical:ALARm:PORT:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE LOS FETC:DATA:TEL:OPT:ALAR:PORT:GLOB:CURR? LOS
See Also	FETCh:DATA:TELeom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELeom:CAUI:ALARm:LANE:CURRent? FETCh:DATA:TELeom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:HISTory?	
Description	This query returns the history status of Interface (Parallel - global) alarm. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELEcom:OPTical:ALARm:PORT:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE LOS FETC:DATA:TEL:OPT:ALAR:PORT:GLOB:HIST? LOS
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURREnt? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent?

Description	This query returns the current status of optical Interface (serial/parallel) alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Use lane 0 for a serial interface. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency (serial interfaces) LOS: LOS (serial/parallel interfaces)
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:CURR? 1, LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent? FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELEcom:OPTical:ALARm:RX:HISTory?

Description	This query returns the history status of optical Interface (serial/parallel) alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > Interface > Alarm
Syntax	:FETCh:DATA:TELEcom:OPTical:ALARm:RX:HISTory?[<wsp><Lane>], <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Use lane 0 for a serial interface. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency (serial interfaces) LOS: LOS (serial/parallel interfaces)
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:HIST? 1, LOS
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURRent? FETCh:DATA:TELEcom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds?	
Description	This query returns the number of seconds within which optical Interface (serial/parallel) alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarm/Errors > Interface
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Use lane 0 for a serial interface. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: FREQuency: Frequency (serial interfaces) LOS: LOS (serial/parallel interfaces)
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:SEC? 1, LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory? FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent? FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent?	
Description	This query returns the current status of ODU alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Alarms NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:CURR? OAIS FETC:DATA:TEL:OTN:ALAR:ODU100:CURR? OAIS, 3
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent?	
Description	This query returns the current status of ODU1e/2e/3e1/3e2 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:CURR? OAIS
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:SEConDs?

**:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTor
y?**

Description	This query returns the history status of ODU1e/2e/3e1/3e2 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:HIST? OAIS
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:SEConDs?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:SECon ds?	
Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?	
Description	This query returns the history status of ODU1e/2e/3e1/3e2 TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELeom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELeom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELeom:OTN:ERRor:[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:CURRent?	
Description	This query returns the current status of ODU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LCK OOCI: OCI OTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:HISTory?

Description	This query returns the history status of ODU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LCK OOCI: OCI OTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:SEConds?	
Description	This query returns the number of seconds within which ODU1f/2f alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LCK OOCI: OCI OTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent?	
Description	This query returns the current status of ODU1f/2f TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HIStory?	
Description	This query returns the history status of ODU1f/2f TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HIStory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

**:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SE
Conds?**

Description	This query returns the number of seconds within which ODU1f/2f TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?	
Description	This query returns the history status of the Optical Data Unit (ODU) alarm. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Optical Data Unit (ODU) alarm. OAIS, ODU - Alarm Indication Signal OBDi, ODU - Backward Defect indication OLCK, ODU - LOCK OOCI, ODU - Open Connection Indication OFSF, ODU - Forward Signal Fail OBSF, ODU - Backward Signal Fail OTIM, ODU - Trace Identification Mismatch OFSD, ODU - Forward Signal Degrade OBSD: ODU - Backward Signal Degrade LOFLom, ODU-Loss of Frame Loss of Multiframe Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of the Optical Data Unit (ODU) alarm. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:HIST? OAIS FETC:DATA:TEL:OTN:ALAR:ODU100:HIST? OAIS, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?	
Description	This query returns the number of seconds within which the Optical Data Unit (ODU) alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of Optical Data Unit (ODU) alarm. OAIS: ODU - Alarm Indication Signal OBDi: ODU - Backward Defect indication OLCK: ODU - LOCK OOCI: ODU - Open Connection Indication OFSF: ODU - Forward Signal Fail OBSF: ODU - Backward Signal Fail OTIM: ODU - Trace Identification Mismatch OFSD: ODU-FSD (ODU - Forward Signal Degrade OBSD: ODU - Backward Signal Degrade LOFLom: ODU-Loss of Frame Loss of Multiframe Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of the Optical Data Unit (ODU) alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:SEC? OAIS FETC:DATA:TEL:OTN:ALAR:ODU100:SEC? OAIS, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?	
Description	This query returns the current status of ODU TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HIS Tory?	
Description	This query returns the history status of ODU TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HIS Tory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEC onds?	
Description	This query returns the number of seconds within which ODU TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELeom:OTN:ALARm:OPU[1..n]:CURRent?

Description	This query returns the current status of OPU / OPU3e1/e2 alarm. At *RST condition, this value is device dependent. NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELeom:OTN:ALARm:OPU[1..n]:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOOMFI OAIS: AIS OCSF: CSF OMSim: MSIM OOMFI OPLM: PLM Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:CURR? OPLM FETC:DATA:TEL:OTN:ALAR:OPU100:CURR? OPLM, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:CURRent?

Description	This query returns the current status of OPU1e/2e alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:CURR? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:HISTory?	
Description	This query returns the history status of OPU1e/2e alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:HIST? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:SEConds?

Description	This query returns the number of seconds within which OPU1e/2e alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:SEC? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:CURRent?	
Description	This query returns the current status of OPU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:CURR? OPLM
See Also	FETCh:DATA:TELEcom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:HISTory?

Description	This query returns the history status of OPU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:HIST? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:SEConds?	
Description	This query returns the number of seconds within which OPU1f/2f alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: OAIS: AIS OCSF: CSF OMSim: MSIM OPLM: PLM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:SEC? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

Description	This query returns the history status of OPU / OPU3e1/e2 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Alarms NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory? <wsp> <Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOOMFI OAIS: AIS OCSF: CSF OMSim: MSIM OOMFI OPLM: PLM Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?	
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:HIST? OPLM FETC:DATA:TEL:OTN:ALAR:OPU100:HIST? OPLM, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:SEConds?

Description	This query returns the number of seconds within which OPU / OPU3e1/e2 alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Alarms NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOOMFI OAIS: AIS OCSF: CSF OMSim: MSIM OOMFI OPLM: PLM Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:SEC? OPLM FETC:DATA:TEL:OTN:ALAR:OPU100:SEC? OPLM, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:CURRent?	
Description	This query returns the current status of OTU alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Alarms NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent?	
Description	This query returns the current status of OTU1e/2e/3e1/3e2 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?	
Description	This query returns the history status of OTU1e/2e/3e1/3e2 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAIS: AIS OBDi: BDI OBIae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:SECon
ds?

Description	This query returns the number of seconds within which OTU1e/2e/3e1/3e2 alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAISe: AIS OBDe: BDI OBIae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:SEC? OAISe
See Also	FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:CURRent?	
Description	This query returns the current status of OTU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAIS: AIS OBDi: BDI OBIae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:HISTory?

Description	This query returns the history status of OTU1f/2f alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:SEConds?	
Description	This query returns the number of seconds within which OTU1f/2f alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM OAISe: AIS OBDe: BDI OBIae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:SEC? OAISe
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?

Description	This query returns the history status of OTU alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Alarms NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM LOFLoM: LOFLOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:SEConds?	
Description	This query returns the number of seconds within which OTU alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Alarms NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOM LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:SEC? OAIS
See Also	FETCh:DATA:TELEcom:OTN:ALARm:OTU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:CURRent?

Description	This query returns the current status of OTL (per lane) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:CURRent? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOR OOF OOR SKEW: Exc. Skew
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:CURR? 1, SKEW FETC:DATA:TEL:OTN:ALAR:PHYS:CURR? 1, OOF
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:CURRent?	
Description	This query returns the current status of OTL (global) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOL LOR OOF OOR
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:CURR? LOL
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:HISTory?

Description	This query returns the history status of OTL (global) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:ALARm:PHYSical:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOL LOR OOF OOR
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:HIST? LOL
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:CURRent?

**:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:SECond
s?**

Description	This query returns the number of seconds within which OTL (global) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOL LOR OOF OOR
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:SEC? LOL
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:HISTory?

Description	This query returns the history status of OTL (per lane) alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:HISTory? <wsp> <Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the history status of physical alarm. The range for the virtual lane is from 0 to 19. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOR OOF OOR SKEW: Exc. Skew
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:HIST? 1, SKEW FETC:DATA:TEL:OTN:ALAR:PHYS:HIST? 1, LOF
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:SEConds?	
Description	This query returns the number of seconds within which OTL (per lane) alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the number of seconds of physical alarm. The range for the virtual lane is from 0 to 19. Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LOF LOR OOF OOR SKEW: Exc. Skew
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:SEC? 1, SKEW FETC:DATA:TEL:OTN:ALAR:PHYS:SEC? 1, OOR
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNt?

Description	This query returns the count of FEC errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNt? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:COUN? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELEcom:OTN:ERRor:FEC:CURRent?	
Description	This query returns the current status of FEC error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:FEC:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:CURR? FCCW
See Also	FETCh:DATA:TELEcom:OTN:ERRor:FEC:HISTory?

:FETCh:DATA:TELeom:OTN:ERRor:FEC:HISTory?

Description	This query returns the history status of FEC error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELeom:OTN:ERRor:FEC:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:HIST? FCCW
See Also	FETCh:DATA:TELeom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE?	
Description	This query returns the current rate of FEC error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:RATE? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds?

Description	This query returns the number of seconds within which FEC error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:SEC? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNT?	
Description	TThis query returns the count of ODU errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Errors NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNT? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:COUN? OBIP8 FETC:DATA:TEL:OTN:ERR:ODU100:COUN? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:CURRent?

Description	This query returns the current status of ODU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Errors NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:CURRent? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:CURR? OBIP8 FETC:DATA:TEL:OTN:ERR:ODU100:CURR? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNT?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNT?	
Description	This query returns the count of ODU1e/2e/3e1/3e2 errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:COUN? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory?	
Description	This query returns the history status of ODU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEL: BEI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:HIST? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE?

Description	This query returns the current rate of ODU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:SECond s?	
Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:SECONDS? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:SEC? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNT?

Description	This query returns the count of ODU1e/2e/3e1/3e2 TCM errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:COUN? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?	
Description	This query returns the current status of ODU1e/2e/3e1/3e2 TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:CURR? TBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?

Description	This query returns the history status of ODU1e/2e/3e1/3e2 TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:HIST? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE?	
Description	This query returns the current rate of ODU1e/2e/3e1/3e2 TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:RATE? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 TCM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:SEC? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:COUNT?	
Description	This query returns the count of ODU1f/2f errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:CURRent?

Description	This query returns the current status of ODU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:HISTory?	
Description	This query returns the history status of ODU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:HIST? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:RATE?

Description	This query returns the current rate of ODU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:SEConds?	
Description	This query returns the number of seconds within which ODU1f/2f error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:SEC? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

**:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CO
UNt?**

Description	This query returns the count of ODU1f/2f TCM errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:COUN? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent? <wsp> <Error>	
Description	This query returns the current status of ODU1f/2f TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:CURR? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

**:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HIS
Tory?**

Description	This query returns the history status of ODU1f/2f TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HISHistory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:HIST? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE?	
Description	This query returns the current rate of ODU1f/2f TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:RATE? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJECT

**:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SE
Conds?**

Description	This query returns the number of seconds within which ODU1f/2f TCM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:SEC? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory?	
Description	This query returns the history status of ODU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Errors NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEL: BEI Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:HIST? OBIP8 FETC:DATA:TEL:OTN:ERR:ODU100:HIST? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:RATE?

Description	This query returns the current rate of ODU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Errors NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUFlex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:RATE? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:RATE? OBIP8 FETC:DATA:TEL:OTN:ERR:ODU100:RATE? OBIP8, 3
See Also	FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:COUNT?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds?	
Description	This query returns the number of seconds within which ODU error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > Errors NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUFlex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBIP8: BIP-8 OBEI: BEI Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:SEC? OBIP8 FETC:DATA:TEL:OTN:ERR:ODU100:SEC? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory?

**:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COU
Nt?**

Description	This query returns the count of ODU TCM errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:COUN? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?	
Description	This query returns the current status of ODU TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:CURR? TBIP8
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory?	
Description	This query returns the history status of ODU TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:HIST? TBIP8
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE?	
Description	This query returns the current rate of ODU TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:RATE? TBIP8
See Also	FETCh:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

**:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SECo
nds?**

Description	This query returns the number of seconds within which ODU TCM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:SEC? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:COUNT?	
Description	This query returns the count of OPU / OPU3e1/e2 errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OMFI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:COUNT? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELeom:OTN:ERRor:OPU[1..n]:CURRent?

Description	This query returns the current status of OPU / OPU3e1/e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELeom:OTN:ERRor:OPU[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OMFI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:CURR? OMFI
See Also	FETCh:DATA:TELeom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?	
Description	This query returns the history status of OPU / OPU3e1/e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OMFI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:HIST? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:RATE?

Description	This query returns the current rate of OPU / OPU3e1/e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OMFI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:RATE? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:SEConds?	
Description	This query returns the number of seconds within which OPU / OPU3e1/e2 error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OMFI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:SEC? OMFI
See Also	FETCh:DATA:TELEcom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNT?

Description	This query returns the count of OTU errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Errors NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:COUN? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:CURRent?	
Description	This query returns the current status of OTU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Errors NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:CURR? OBIP8
See Also	FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:SEConds?

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNT?

Description	This query returns the count of OTU1e/2e/3e1/3e2 errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ FETC:DATA:TEL:OTN:ERR:OTU3:E1:COUN? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUnt SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent?	
Description	This query returns the current status of OTU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ FETC:DATA:TEL:OTN:ERR:OTU3:E1:CURR? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUnt SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory?

Description	This query returns the history status of OTU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ FETC:DATA:TEL:OTN:ERR:OTU3:E1:HIST? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE?	
Description	This query returns the current rate of OTU1e/2e/3e1/3e2 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ FETC:DATA:TEL:OTN:ERR:OTU3:E1:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUnt SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU1e/2e/3e1/3e2 error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ FETC:DATA:TEL:OTN:ERR:OTU3:E1:SEC? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUnt SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNT?	
Description	This query returns the count of OTU1f/2f errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ FETC:DATA:TEL:OTN:ERR:OTU1:F:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:CURRent?

Description	This query returns the current status of OTU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ FETC:DATA:TEL:OTN:ERR:OTU1:F:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:HISTory?	
Description	This query returns the history status of OTU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ FETC:DATA:TEL:OTN:ERR:OTU1:F:HIST? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:RATE?

Description	This query returns the current rate of OTU1f/2f error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ FETC:DATA:TEL:OTN:ERR:OTU1:F:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INject

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:SEConds?	
Description	This query returns the number of seconds within which OTU1f/2f error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:F:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ FETC:DATA:TEL:OTN:ERR:OTU1:F:SEC? OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:HISTory?

Description	This query returns the history status of OTU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Errors NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:HIST? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:RATE?

Description	This query returns the current rate of OTU error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Errors NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:RATE? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:RATE? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNT?

:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTU > Errors NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:SEC? OBIP8
See Also	FETCh:DATA:TELEcom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:COUNT:TOTal?	
Description	This query returns the total count of OTL errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors - Total Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error - Total
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:COUNT:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:COUNT:TOT? FAS
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:COUNT?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNT?

Description	This query returns the count of OTL (per lane) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNT? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:COUN? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:COUN? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?	
Description	This query returns the current status of OTL (per lane) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:CURR? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:CURR? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HIStory?

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of OTL (global) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the error: FAS LLM: Invalid Marker
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:GLOB:CURR? FAS
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:HISTory?

Description	This query returns the history status of OTL (global) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:GLOBal:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:GLOB:HIST?? FAS

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory?

Description	This query returns the history status of OTL (per lane) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:HIST? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:HIST? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE:TOTal?	
Description	This query returns the total rate of OTL error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors - Total Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error - Total
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE:TOTal? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:RATE:TOT? FAS
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELeom:OTN:ERRor:PHYSical:RATE?

Description	This query returns the current rate of OTL (per lane) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELeom:OTN:ERRor:PHYSical:RATE? <wsp><Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the current rate of physical error. The range for the virtual lane is from 0 to 19. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:RATE? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:RATE? 1, LLM
See Also	FETCh:DATA:TELeom:OTN:ERRor:PHYSical:COUNT?

:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:SEConds?	
Description	This query returns the number of seconds within which OTL (per lane) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:SEConds? <wsp> <Lane>, <Error>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the number of seconds of physical error. The range for the virtual lane is from 0 to 19. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:SEC? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:SEC? 1, LLM
See Also	FETCh:DATA:TELEcom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent?

Description	This query returns the current status of GMP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: GMPOOS: OOS CFRequency: Client Frequency Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:CURR? GMPOOS FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:CURR? GMPOOS, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ALARm:HISTory?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory?	
Description	This query returns the history status of GMP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory? <wsp> <Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: GMPOOS: OOS CFRequency: Client Frequency Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:HIST? GMPOOS FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:HIST? GMPOOS, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ALARm:CURRent?

**:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:SECo
nds?**

Description	This query returns the number of seconds within which GMP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ALARm:SECONDS? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: GMPOOS: OOS CFRequency: Client Frequency Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:SEC? GMPOOS FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:SEC? GMPOOS, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ALARm:HISTory?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:COUNT?	
Description	This query returns the count of GMP errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:COUNT? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CMCRC8: Cm-CRC-8 CNDCRC5: CnD-CRC-5 CMCRC6: Cm-CRC-6 CNDCRC9: CnD-CRC-9 Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:COUN? CMCRC8 FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:COUN? CMCRC8, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent?

Description	This query returns the current status of GMP error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CMCRC8: Cm-CRC-8 CNDCRC5: CnD-CRC-5 CMCRC6: Cm-CRC-6 CNDCRC9: CnD-CRC-9 Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:CURR? CMCRC8 FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:CURR? CMCRC8, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory?	
Description	This query returns the history status of GMP error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CMCRC8: Cm-CRC-8 CNDCRC5: CnD-CRC-5 CMCRC6: Cm-CRC-6 CNDCRC9: CnD-CRC-9 Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:HIST? CMCRC8 FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:HIST? CMCRC8, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ERRor:CURRent?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE?	
Description	This query returns the current rate of GMP error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CMCRC8: Cm-CRC-8 CNDCRC5: CnD-CRC-5 CMCRC6: Cm-CRC-6 CNDCRC9: CnD-CRC-9 Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:RATE? CMCRC8 FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:RATE? CMCRC8, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds?	
Description	This query returns the number of seconds within which GMP error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CMCRC8: Cm-CRC-8 CNDCRC5: CnD-CRC-5 CMCRC6: Cm-CRC-6 CNDCRC9: CnD-CRC-9 Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:SEC? CMCRC8 FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:SEC? CMCRC8, 3
See Also	FETCh:DATA:TELEcom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:CURRent?

Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Delay Request
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DELAYREQUESTLOS: Loss Delay Request
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. MASKED: Alarm is masked. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:DREQ:CURR? DELAYREQUESTLOS

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:HISTory?	
Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Delay Request
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:DREQuest:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DELAYREQUESTLOS: Loss Delay Request
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. MASKED: Alarm is masked. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:DREQ:HIST? DELAYREQUESTLOS

**:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:DREQuest:SE
Cond?**

Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Delay Request
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:DREQuest:SECond? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DELAYREQUESTLOS: Loss Delay Request
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:DREQ:SEC?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURREnt?	
Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURREnt? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSUNUSABLE: Unusable
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURREnt? PTSUNUSABLE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:CURREnt?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:HISTory?

Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:HISTory? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSUNUSABLE: Unusable
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:HISTory? PTSUNUSABLE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SYNMessage:HISTory?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:SECond? ?	
Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:SECond? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSUNUSABLE: Unusable
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:IPDV:SECond? PTSUNUSABLE
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SYNMessage:SECond?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:CURRent?

Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch Loss Announce QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:CURRent? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DOMAINMISM: Domain Mismatch PTSLOSANN: Loss Announce QLMISM: QL Mismatch
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:CURRent? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:HIStory?	
Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch Loss Announce QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:HIStory? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: DOMAINMISM: Domain Mismatch PTSLOSANN: Loss Announce QLMISM: QL Mismatch
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:HIStory? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HIStory?

**:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:SE
Cond?**

Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch Loss Announce QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:SECond? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: QLMISM: QL Mismatch PTSLOSANN: Loss Announce DOMAINMISM: Domain Mismatch
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSAge:SECond? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond?

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:RFAult:CURRent?	
Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Reference Signal > Alarms > Ref Fault
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:RFAult:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: REFERENCEFAULT: Ref Fault
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. MASKED: Alarm is masked. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:RFA:CURR?

**:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:RFAult:HISTo
ry?**

Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Reference Signal > Alarms > Ref Fault
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:RFAult:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: REFERENCEFAULT: Ref Fault
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. MASKED: Alarm is masked. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:RFA:HIST?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:RFAult:SECo nd?	
Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Reference Signal > Alarms > Ref Fault
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:RFAult:SECond? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: REFERENCEFAULT: Ref Fault
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PACK:PTP:ALAR:RFA:SEC?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:CURRent?

Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Session
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:CURRent? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: SESSIONLOS: Loss Session
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:CURRent? SESSIONLOS

:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:HISTory?

Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Session
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:HISTory? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. SESSIONLOS: loss Session
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. MASKED: Alarm is masked. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:SESSion:HISTory? SESSIONLOS

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:SEConD?

Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Session
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:SEConD? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. SESSIONLOS: Loss Session
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SESSion:SEConD? SESSIONLOS

**:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage
:CURRent?**

Description	This query returns the current status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:CURRent? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSSYNCLOS: Loss Sync
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:CURRent? PTSSYNCLOS
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:IPDV:HISTory?

:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:HIStory?

Description	This query returns the history status of PTP alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:HIStory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSSYNCLOS: Loss Sync
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:HIStory? PTSSYNCLOS
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:ALARm:SYNMessage:HIStory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond?	
Description	This query returns the number of seconds within which PTP alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: PTSSYNCLoS: Loss Sync
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond? PTSSYNCLoS
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?

:FETCh:DATA:TELeom:PACKetsync:SYNCe:ALARm:CURRent?

Description	This query returns the current status of SyncE alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELeom:PACKetsync:SYNCe:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: ESMCLOSS: ESMC Loss QLMISMATCH: QL Mismatch
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:CURR? ESMCLOSS
See Also	FETCh:DATA:TELeom:PACKetsync:SYNCe:ALARm:HISTory?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory?	
Description	This query returns the history status of SyncE alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: ESMCLOSS: ESMC Loss QLMISMATCH: QL Mismatch
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:HIST? ESMCLOSS
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SECOnds?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds?

Description	This query returns the number of seconds within which SyncE alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: ESMCLOSS: ESMC Loss QLMISMATCH: QL Mismatch
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:SEC? ESMCLOSS
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:CURRent?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VE RDict?	
Description	This query returns ESMC Rx Rate Verdict status. At *RST condition, this value is set to down. Navigation Path: Test App > SyncE > Setup > Results > Summary > ESMC Port1 > ESMC RX Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns ESMC Rx rate verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ESMC:RX:RATE:VERD?
See Also	FETCh:DATA:TELecom:TEST:STATus:VERDict?

**:FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDi
ct?**

Description	This query returns RX Last QL Verdict status. At *RST condition, this value is set to down. Navigation Path: Test App > SyncE > Result> Summary > ESMC-Port 1 > RX>Last QL Message
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Rx Last QL verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:SYNC:RX:LAST:QL:VERD?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?

:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:CURRent?	
Description	This query returns the current status of BER alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Alarms Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRaffic: No Traffic PLOsS: Pattern Loss Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:CURR? PLOS
See Also	FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:HISTory?

Description	This query returns the history status of BER alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Alarms Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRaffic: No Traffic PLOSs: Pattern Loss Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:HIST? PLOS
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:CURRent?

:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds?	
Description	This query returns the number of seconds within which BER alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BER > Alarms Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: NTRaffic: No Traffic PLOSs: Pattern Loss Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:SEC? PLOS
See Also	FETCh:DATA:TELecom:PATtern:ALARm:PATtern:HISTory?

:FETCh:DATA:TELecom:PATTErn:ERRor:PATTErn:COUNt?

Description	This query returns the count of BER errors. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BERT/BER > Errors Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTErn:ERRor:PATTErn:COUNt? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1' PATTErn: Pattern Error Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 SOUR:DATA:TEL:PATT:ERR:PATT:INJ FETC:DATA:TEL:PATT:ERR:PATT:COUN? BIT
See Also	FETCh:DATA:TELecom:PATTErn:ERRor:PATTErn:HISTory?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:CURRent?	
Description	This query returns the current status of BER error. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BERT/BER > Errors Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1' PATtern: Pattern Error Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:PATtern:ERRor:PATtern:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 SOUR:DATA:TEL:PATT:ERR:PATT:INJ FETC:DATA:TEL:PATT:ERR:PATT:CURR? BIT
See Also	FETCh:DATA:TELecom:PATtern:ERRor:PATtern:RATE?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory?	
Description	This query returns the history status of BER error. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BERT/BER > Errors Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory? <wsp> <Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1' PATtern: Pattern Error Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 SOUR:DATA:TEL:PATT:ERR:PATT:INJ FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT
See Also	FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:COUNt?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:RATE?	
Description	This query returns the current rate of BER error. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BERT/BER > Errors Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1' PATtern: Pattern Error Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 SOUR:DATA:TEL:PATT:ERR:PATT:INJ FETC:DATA:TEL:PATT:ERR:PATT:RATE? BIT
See Also	FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:CURRent?

:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:SEConds?

Description	This query returns the number of seconds within which BER error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > BERT/BER > Errors Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELEcom:PATtern:ERRor:PATtern:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BIT: Bit Error MISMATCH0: Mismatch '0' MISMATCH1: Mismatch '1' PATtern: Pattern Error Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 SOUR:DATA:TEL:PATT:ERR:PATT:INJ FETC:DATA:TEL:PATT:ERR:PATT:SEC? BIT
See Also	FETCh:DATA:TELEcom:PATtern:ALARm:PATtern:SEConds?

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:CURRent?	
Description	This query returns the current status of E1/E2/E3/E4 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CLOMf: CRC LOMF LOF3: LOF LOMF RAI RAIM: RAI MF TS16ais: TS16 AIS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:CURR? AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:HISTory?

Description	This query returns the history status of E1/E2/E3/E4 alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CLOMf: CRC LOMF LOF3: LOF LOMF RAI RAIM: RAI MF TS16ais: TS16 AIS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:HIST? AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELEcom:PDH:ALARm:E[1..n]:SEConds?	
Description	This query returns the number of seconds within which E1/E2/E3/E4 alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELEcom:PDH:ALARm:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CLOMf: CRC LOMF LOF3: LOF LOMF RAI RAIM: RAI MF TS16ais: TS16 AIS
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:SEC? AIS
See Also	SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:COUNT?

Description	This query returns the count of E1/E2/E3/E4 errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:COUN? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:CURRent?	
Description	This query returns the current status of E1/E2/E3/E4 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:CURR? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUNT SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INject

:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:HISTory?

Description	This query returns the history status of E1/E2/E3/E4 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELEcom:PDH:ERRor:E[1..n]:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:HIST? FAS
See Also	SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AMOUNT SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:INject

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:RATE?	
Description	This query returns the current rate of E1/E2/E3/E4 error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:RATE? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:SEConds?

Description	This query returns the number of seconds within which E1/E2/E3/E4 error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:SEC? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:CURRent?	
Description	This query returns the current status of STS/AU Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-P AU-AIS EPCD1: ERDI-PCD HP-ERDI-C EPPD1: ERDI-PPD HP-ERDI-PD EPSD1: ERDI-PSD HP-ERDI-SD LOM: H4-LOM H4-LOM LOP: LOP-P AU-LOP PDI: PDI-P (SONET only) PLM: PLM-P HP-PLM RDI: RDI-P HP-RDI TIM: TIM-P HP-TIM UNEQ: UNEQ-P HP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:HISTory?	
Description	This query returns the history status of STS/AU Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-P AU-AIS EPCD1: ERDI-PCD HP-ERDI-C EPPD1: ERDI-PPD HP-ERDI-PD EPSD1: ERDI-PSD HP-ERDI-SD LOM: H4-LOM H4-LOM LOP: LOP-P AU-LOP PDI: PDI-P (SONET only) PLM: PLM-P HP-PLM RDI: RDI-P HP-RDI TIM: TIM-P HP-TIM UNEQ: UNEQ-P HP-UNEQ
Response Syntax	<History>

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:SECond s?	
Description	This query returns the number of seconds within which STS/AU Path alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:SECONDS? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-P AU-AIS EPCD1: ERDI-PCD HP-ERDI-C EPPD1: ERDI-PPD HP-ERDI-PD EPSD1: ERDI-PSD HP-ERDI-SD LOM: H4-LOM H4-LOM LOP: LOP-P AU-LOP PDI: PDI-P (SONET only) PLM: PLM-P HP-PLM RDI: RDI-P HP-RDI TIM: TIM-P HP-TIM UNEQ: UNEQ-P HP-UNEQ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:SEC? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:CURRent?

Description	This query returns the current status of STS/AU Path TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-IAIS-P HPTC-IAIS LLTC: TC-LTC-P HPTC-LTC LODI: TC-ODI-P HPTC-ODI LRDI: TC-RDI-P HPTC-RDI LTIM: TC-TIM-P HPTC-TIM LUNEQ: TC-UNEQ-P HPTC-UNEQ
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:CURR? LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:HISTory?	
Description	This query returns the history status of STS/AU Path TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-IAIS-P HPTC-IAIS LLTC: TC-LTC-P HPTC-LTC LODI: TC-ODI-P HPTC-ODI LRDI: TC-RDI-P HPTC-RDI LTIM: TC-TIM-P HPTC-TIM LUNEQ: TC-UNEQ-P HPTC-UNEQ
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:HIST? LIAIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:SEConds?

Description	This query returns the number of seconds within which STS/AU Path TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-IAIS-P HPTC-IAIS LLTC: TC-LTC-P HPTC-LTC LODI: TC-ODI-P HPTC-ODI LRDI: TC-RDI-P HPTC-RDI LTIM: TC-TIM-P HPTC-TIM LUNEQ: TC-UNEQ-P HPTC-UNEQ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:SEC? LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:CURRent?	
Description	This query returns the current status of Line/MS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS: AIS-L MS-AIS RDI: RDI-L MS-RDI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE ON FETC:DATA:TEL:SDHS:ALAR:LINE:CURR? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:HISTory?

Description	This query returns the history status of Line/MS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS: AIS-L MS-AIS RDI: RDI-L MS-RDI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE ON FETC:DATA:TEL:SDHS:ALAR:LINE:HIST? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:SEConds?	
Description	This query returns the number of seconds within which Line/MS alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LINE:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS: AIS-L MS-AIS RDI: RDI-L MS-RDI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE ON FETC:DATA:TEL:SDHS:ALAR:LINE:SEC? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:CURRent?

Description	This query returns the current status of VT/TU Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-V TU-AIS EVCD: ERDI-VCD LP-ERDI-CD EVPD: ERDI-VPD LP-ERDI-PD EVSD: ERDI-VSD LP-ERDI-SD LPRFi: RFI-V LP-RFI PLM: PLM-V LP-PLM RDI: RDI-V LP-RDI TIM: TIM-V LP-TIM TULop: LOP-V TU-LOP UNEQp: UNEQ-V LP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:HISTory?

Description	This query returns the history status of VT/TU Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-V TU-AIS EVCD: ERDI-VCD LP-ERDI-CD EVPD: ERDI-VPD LP-ERDI-PD EVSD: ERDI-VSD LP-ERDI-SD LPRFi: RFI-V LP-RFI PLM: PLM-V LP-PLM RDI: RDI-V LP-RDI TIM: TIM-V LP-TIM TULop: LOP-V TU-LOP UNEQp: UNEQ-V LP-UNEQ
Response Syntax	<History>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:SEConds?

Description	This query returns the number of seconds within which VT/TU Path alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:SEConds? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): AIS: AIS-V TU-AIS EVCD: ERDI-VCD LP-ERDI-CD EVPD: ERDI-VPD LP-ERDI-PD EVSD: ERDI-VSD LP-ERDI-SD LPRFi: RFI-V LP-RFI PLM: PLM-V LP-PLM RDI: RDI-V LP-RDI TIM: TIM-V LP-TIM TULop: LOP-V TU-LOP UNEQp: UNEQ-V LP-UNEQ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:CURRent?	
Description	This query returns the current status of VT/TU Path TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-AIS-V LPTC-AIS LLTC: TC-LTC-V LPTC-LTC LODI: TC-ODI-V LPTC-ODI LRDI: TC-RDI-V LPTC-RDI LTIM: TC-TIM-V LPTC-TIM LUNEQ: TC-UNEQ-V LPTC-UNEQ
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:HISTory?

Description	This query returns the history status of VT/TU Path TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-AIS-V LPTC-AIS LLTC: TC-LTC-V LPTC-LTC LODI: TC-ODI-V LPTC-ODI LRDI: TC-RDI-V LPTC-RDI LTIM: TC-TIM-V LPTC-TIM LUNEQ: TC-UNEQ-V LPTC-UNEQ
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:HIST? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:SEConds?	
Description	This query returns the number of seconds within which VT/TU Path TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-AIS-V LPTC-AIS LLTC: TC-LTC-V LPTC-LTC LODI: TC-ODI-V LPTC-ODI LRDI: TC-RDI-V LPTC-RDI LTIM: TC-TIM-V LPTC-TIM LUNEQ: TC-UNEQ-V LPTC-UNEQ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:SEC? AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:CURRent?

Description	This query returns the current status of TU-3 Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:CURRent? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SDH): AIS: TU-AIS ECD: LP-ERDI-CD EPD: LP-ERDI-PD ESD: LP-ERDI-SD LOP: TU-LOP LPPLm: LP-PLM LPRDi: LP-RDI LPTim: LP-TIM UNEQ: LP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

**:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:HISTor
y?**

Description	This query returns the history status of TU-3 Path alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:HISTory? <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SDH): AIS: TU-AIS ECD: LP-ERDI-CD EPD: LP-ERDI-PD ESD: LP-ERDI-SD LOP: TU-LOP LPPLm: LP-PLM LPRDi: LP-RDI LPTim: LP-TIM UNEQ: LP-UNEQ
Response Syntax	<History>

**:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:HISTor
y?**

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

**:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:SECon
ds?**

Description	This query returns the number of seconds within which TU-3 Path alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SDH): AIS: TU-AIS ECD: LP-ERDI-CD EPD: LP-ERDI-PD ESD: LP-ERDI-SD LOP: TU-LOP LPPLm: LP-PLM LPRDi: LP-RDI LPTim: LP-TIM UNEQ: LP-UNEQ
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELEcom:SDHSonet:ALARm:SECTion:CURRent?	
Description	This query returns the current status of Section/RS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:SECTion:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): LOF1: LOF-S RS-LOF SEF1: SEF TIMS: TIM-S RS-TIM
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT ON FETC:DATA:TEL:SDHS:ALAR:SECT:CURR? LOF1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELEcom:SDHSonet:ALARm:SECTion:HISTory?

Description	This query returns the history status of Section/RS alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ALARm:SECTion:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): LOF1: LOF-S RS-LOF SEF1: SEF TIMS: TIM-S RS-TIM
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT ON FETC:DATA:TEL:SDHS:ALAR:SECT:HIST? LOF1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:SEConds?

Description	This query returns the number of seconds within which Section/RS alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH): LOF1: LOF-S RS-LOF SEF1: SEF TIMS: TIM-S RS-TIM
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT ON FETC:DATA:TEL:SDHS:ALAR:SECT:SEC? LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNt?

Description	This query returns the count of High Order Path (HOP) error. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNt? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of HOP (High Order Path) error. B3: B3 (ERROR) REI: Remote Error Indicator - Path
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:HOP:PATH:COUN? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent?	
Description	This query returns the current status of High Order Path (HOP) error. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of HOP (High Order Path) error. B3: B3 (ERROR) REI: Remote Error Indicator - Path
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of High Order Path (HOP) error. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that there is no error. INACTIVE, indicates that the test is not running.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:HOP:PATH:CURR? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:HISTory?

Description	This query returns the history status of High Order Path (HOP) error. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of HOP (High Order Path) error. B3: B3 (ERROR) REI: Remote Error Indicator - Path
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status High Order Path (HOP) error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:HOP:PATH:HIST? B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:RATE?	
Description	This query returns the current rate of High Order Path (HOP) error. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of HOP (High Order Path) error. B3: B3 (ERROR) REI: Remote Error Indicator - Path
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current rate of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:HOP:PATH:RATE? B3
See Also	SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AMOUnt SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds?	
Description	This query returns the number of seconds within which High Order Path (HOP) error occurred. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of HOP (High Order Path) error. B3: B3 (ERROR) REI: Remote Error Indicator - Path
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:HOP:PATH:SEC? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:COUNT?

Description	This query returns the count of STS/AU Path TCM errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:COUNT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI LVIOL: TC-VIOL-P HPTC-VIOL
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:HOP:TCM:COUN? LIEC
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMount SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:CURRent?

Description	This query returns the current status of STS/AU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:CURRent? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI LVIOL: TC-VIOL-P HPTC-VIOL
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:HOP:TCM:CURR? LIEC
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMount SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:HISTory?	
Description	This query returns the history status of STS/AU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI LVIOL: TC-VIOL-P HPTC-VIOL
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:HOP:TCM:HIST? LIEC
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMount SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:RATE?

Description	This query returns the current rate of STS/AU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI LVIOL: TC-VIOL-P HPTC-VIOL
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:HOP:TCM:RATE? LIEC
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOUnt SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:SEConds?	
Description	This query returns the number of seconds within which STS/AU Path TCM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI LVIOL: TC-VIOL-P HPTC-VIOL
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:HOP:TCM:SEC? LIEC
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUnT?

Description	This query returns the count of Line/MS errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUnT? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B2 REI: REI-L MS-REI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJ FETC:DATA:TEL:SDHS:ERR:LINE:COUN? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LINE:CURRent?	
Description	This query returns the current status of Line/MS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LINE:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B2 REI: REI-L MS-REI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJ FETC:DATA:TEL:SDHS:ERR:LINE:CURR? B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LINE:HISTory?

Description	This query returns the history status of Line/MS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LINE:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B2 REI: REI-L MS-REI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJ FETC:DATA:TEL:SDHS:ERR:LINE:HIST? B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE?	
Description	This query returns the current rate of Line/MS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B2 REI: REI-L MS-REI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJ FETC:DATA:TEL:SDHS:ERR:LINE:RATE? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds?

Description	This query returns the number of seconds within which Line/MS error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B2 REI: REI-L MS-REI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJ FETC:DATA:TEL:SDHS:ERR:LINE:SEC? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:COUNT?	
Description	This query returns the count of VT/TU Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOP:PATH:COUN? BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:CURRent?

Description	This query returns the current status of VT/TU Path error. At *RST condition, this value is device dependent. Navigation Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOP:PATH:CURR? BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:HISTory?	
Description	This query returns the history status of VT/TU Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOP:PATH:HIST? BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:RATE?

Description	This query returns the current rate of VT/TU Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOP:PATH:RATE? BIP2
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE? SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOUNT? SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:SEConds?

Description	This query returns the number of seconds within which VT/TU Path error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:SEConds? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOP:PATH:SEC? BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:COUNT?

Description	This query returns the count of VT/TU Path TCM errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LVIOL: TC-VIOL-V LPTC-VIOL LIEC (not supported)
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:LOP:TCM:COUN? LOEI
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:CURRent?	
Description	This query returns the current status of VT/TU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LVIOL: TC-VIOL-V LPTC-VIOL LIEC (not supported)
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:LOP:TCM:CURR? LOEI
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMount SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:HISTory?

Description	This query returns the history status of VT/TU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LVIOL: TC-VIOL-V LPTC-VIOL LIEC (not supported)
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:LOP:TCM:HIST? LOEI
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMount SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:RATE?	
Description	This query returns the current rate of VT/TU Path TCM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LVIOL: TC-VIOL-V LPTC-VIOL LIEC (not supported)
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:LOP:TCM:RATE? LOEI
See Also	SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AMOUnt SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:SEConds?	
Description	This query returns the number of seconds within which VT/TU Path TCM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LVIOL: TC-VIOL-V LPTC-VIOL LIEC (not supported)
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ FETC:DATA:TEL:SDHS:ERR:LOP:TCM:SEC? LOEI
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:COUNT?	
Description	This query returns the count of TU-3 Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B3 REI: LP-REI
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:COUN? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:CURRent?	
Description	This query returns the current status of TU-3 Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B3 REI: LP-REI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:CURR? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:HISTory?	
Description	This query returns the history status of TU-3 Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:HISTory? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B3 REI: LP-REI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:HIST? B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:RATE?

Description	This query returns the current rate of TU-3 Path error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B3 REI: LP-REI
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:RATE? B3
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJECT

**:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:SECond
s?**

Description	This query returns the number of seconds within which TU-3 Path error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: B3 REI: LP-REI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:SEC? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNT?

Description	This query returns the count of Section/RS errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNT? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): B1 FAS: FAS-S RS-FAS
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:COUN? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:CURRent?	
Description	This query returns the current status of Section/RS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:CURRent? <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): B1 FAS: FAS-S RS-FAS
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:CURR? B1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:INJECT

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory?

Description	This query returns the history status of Section/RS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): B1 FAS: FAS-S RS-FAS
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:HIST? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOUNT SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:RATE?	
Description	This query returns the current rate of Section/RS error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:RATE? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): B1 FAS: FAS-S RS-FAS
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:RATE? B1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:INJECT

:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:SEConds?

Description	This query returns the number of seconds within which Section/RS error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ERRor:SECTion:SEConds? <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET SDH): B1 FAS: FAS-S RS-FAS
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:SEC? B1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMOUNT SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SOAM:ALARm:CURRent?	
Description	This query returns the current status of an OAM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CCMLEV: Unexp MEG Lvl CCMLOC: Loss Continuity CCMMEP: Unexp MEP CCMMIS: Mismatch CCMPER: Unexp Period CFDI: C-FDI CLOS: C-LOS CRDI: C-RDI LCK RDI
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:CURR? CCMLOC
See Also	FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

:FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

Description	This query returns the history status of an OAM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CCMLEV: Unexp MEG Lvl CCMLOC: Loss Continuity CCMMEP: Unexp MEP CCMMIS: Mismatch CCMPER: Unexp Period CFDI: C-FDI CLOS: C-LOS CRDI: C-RDI LCK RDI
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:HIST? CcmLoc
See Also	FETCh:DATA:TELecom:SOAM:ALARm:CURRent?

:FETCh:DATA:TELecom:SOAM:ALARm:SEConds?	
Description	This query returns the number of seconds within which OAM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: AIS CCMLEV: Unexp MEG Lvl CCMLOC: Loss Continuity CCMMEP: Unexp MEP CCMMIS: Mismatch CCMPER: Unexp Period CFDI: C-FDI CLOS: C-LOS CRDI: C-RDI LCK RDI
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:SEC? CcmLoc
See Also	FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?

Description	This query returns the current status of Clock alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current alarm status: PRESENT: An alarm has occurred in the last second. ABSENT: No alarm has occurred in the last second. INACTIVE: No test result available.
Example(s)	INP:TEL:BACK:ALAR:STAT:CURR?
See Also	INPut:TELecom:BACKplane:ALARm:STATus:HISTory?

:INPut:TELEcom:BACKplane:ALARm:STATus:HISTory?	
Description	This query returns the history status of Clock alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELEcom:BACKplane:ALARm:STATus:HISTory?
Response Syntax	<History>
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	INP:TEL:BACK:ALAR:STAT:HIST?
See Also	INPut:TELEcom:BACKplane:ALARm:STATus:SECOnds?

:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

Description	This query returns the number of seconds within which Clock alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	INP:TEL:BACK:ALAR:STAT:SEC?
See Also	INPut:TELecom:BACKplane:ALARm:STATus:CURRent?

:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABLe	
Description	This command enables/disables the FlexE Path OAM Basic Oam CS_LPI monitoring At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Path OAM > CS_LPI Monitoring
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABLe <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Seconds>
Example(s)	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB OFF SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB? Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABLe?

Description	This query returns the enable/disable status of FlexE Path OAM Basic Oam CS_LPI Monitoring At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Path OAM > CS_LPI Monitoring
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB OFF SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB? Returns: 0

:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM	
Description	This command enables/disables the Optical Payload Unit-MSIM Monitoring status. At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU > OPU > MSIM Monitoring
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the OPU-PLM (Optical Payload Unit-MSIM Monitoring status). ON, enables the Optical Payload Unit-MSIM Monitoring status. OFF, disables the Optical Payload Unit-MSIM Monitoring status.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:OTN:OPU1:MSIM ON SENS:DATA:TEL:OTN:OPU1:MSIM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM?

Description	This query returns the status of the Optical Payload Unit-MSIM Monitoring status. At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU > OPU > MSIM Monitoring
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Optical Payload Unit-MSIM Monitoring status. 1, Optical Payload Unit-MSIM Monitoring status is enabled. 0, Optical Payload Unit-MSIM Monitoring status is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:MSIM ON SENS:DATA:TEL:OTN:OPU1:MSIM? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODE

:SOURce:DATA:TELeom:CPRI:ALARm:DEFect	
Description	This command selects the continuous CPRI alarm Defect to be injected. At *RST condition, this Defect type LOF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:CPRI:ALARm:DEFect[<wsp><Alarm>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:DEF LOF
See Also	SOURce:DATA:TELeom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:CPRI:ALARm:DEFect?

Description	This query returns the continuous CPRI alarm Defect to be injected. At *RST condition, this Defect type LOF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:CPRI:ALARm:DEFect?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:DEF?
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate	
Description	This command enables/disables the continuous CPRI alarm injection. At *RST condition, this value is set to off. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:GENerate <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:GEN ON
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

Description	This query returns the enable/disable status of the continuous CPRI alarm injection. At *RST condition, this value is set to off. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:GENerate?
Response Syntax	<set>
Response(s)	set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:GEN ON?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate ON

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate CPRI error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous

Description	This command selects the automated CPRI error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated CPRI error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:CONT? Returns Injection: ON/OFF
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABLE

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEfect

Description	This command sets the automated CPRI error Defect to be injected. At *RST condition, this Defect type FAS. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEfect <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:DEF FAS
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEfect?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect?	
Description	This query returns the automated CPRI error Defect to be injected. At *RST condition, this Defect type FAS. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE

Description	This command sets the automated CPRI error Rate to be injected. At *RST condition, this value is set to 1.0E-07. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE[<wsp><RATE>]
Parameter(s)	RATE: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected: 1.0E-07 to 5.0E-01 MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:RATE
See Also	SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE?	
Description	This query returns the automated CPRI error Rate to be injected. At *RST condition, this value is set to 1.0E-07. Navigation Path:Results > Alarms/Errors > Injection > CPRI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:RATE?
See Also	SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated:RATE?

:SOURce:DATA:TELeom:CPRI:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate CPRI error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT ON SOUR:DATA:TEL:CPRI:ERR:AUT?
See Also	SOURce:DATA:TELeom:CPRI:INTErface:ERRor:AUTomated?

:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:AMOut	
Description	This command sets the manual CPRI error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:CPRI:ERRor:MANual:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:AMO
See Also	SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:AMOut

:SOURce:DATA:TELeom:CPRI:ERRor:MANual:AMOut?

Description	This query returns the manual CPRI error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Amount
Syntax	:SOURce:DATA:TELeom:CPRI:ERRor:MANual:AMOut? [<wsp> <Vaue>]
Parameter(s)	Vaue: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:AMO?
See Also	SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:AMOut?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFection	
Description	This command sets the manual CPRI error Defect to be injected. At *RST condition, this defect type is FAS. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFection <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS 66BBLOCK SYNCHHEADER
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:DEF FAS
See Also	SOURce:DATA:TELecom:CPRI:ALARm:DEFection?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

Description	This query returns the manual CPRI error Defect to be injected. At *RST condition, this defect type is FAS. Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

:SOURce:DATA:TELeom:CPRI:ERRor:MANual:INJect	
Description	This command enables/disables the manual CPRI error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:ERRor:MANual:INJect
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:INJect
See Also	SOURce:DATA:TELeom:CPRI:INTERface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOut

Description	This command sets the amount of RS-FEC error to be injected for CPRI 24.3G. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Global Injection > Layer (RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of FEC error to be injected. DEFault: Default amount of RS-FEC error MAXimum: Greatest supported amount MINimum: Smallest supported amount
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO 50 SOUR:DATA:TEL:CPRI:FEC:ERR:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOut SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOUnt?	
Description	This query returns the manual RS-FEC error Amount to be injected for CPRI 24.3G. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOUnt?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO 50 SOUR:DATA:TEL:CPRI:FEC:ERR:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOUnt SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated

Description	This command enables/disables the rate/Max Rate RS-FEC error injection for CPRI 24.3G. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT OFF SOUR:DATA:TEL:CPRI:FEC:ERR:AUT? Returns: 0
See Also	SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:CONTInuous	
Description	This command sets the automated RS-FEC error Mode for CPRI 24.3G: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Mode
Syntax	:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT OFF SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTInuous?

Description	This query returns the automated RS-FEC error Mode for CPRI 24.3G: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT ON SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE	
Description	This command sets the automated RS-FEC error Rate to be injected for CPRI 24.3G. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of FEC error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOUnt

:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:RATE?

Description	This query returns the automated RS-FEC error Rate to be injected for CPRI 24.3G. At *RST condition, this value is set to 1.0E-02. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default rate
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:RATE
See Also	SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AMOUnt?

:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:TYPE	
Description	This command selects the automated RS-FEC error Defect to be injected for CPRI 24.3G. At *RST condition, this value is set to FSERR. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:CPRI:FEC:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FEC error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:TYPE FSERR
See Also	SOURce:DATA:TELEcom:CPRI:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE?	
Description	This query returns the automated RS-FEC error Defect to be injected for CPRI 24.3G. At *RST condition, this value is set to FSERR. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FEC error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the rate/Max Rate RS-FEC error injection for CPRI 24.3G. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT ON SOUR:DATA:TEL:CPRI:FEC:ERR:AUT? Returns: 0
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELeom:CPRI:FEC:ERRor:INJect

Description	This command enables/disables the manual RS-FEC error injection for CPRI 24.3G. This command is an event and has no associated # RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:FEC:ERRor:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:INJ
See Also	SOURce:DATA:TELeom:CPRI:FEC:ERRor:MANual:TYPE? SOURce:DATA:TELeom:CPRI:FEC:ERRor:AMOUnt?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE	
Description	This command selects the manual RS-FEC error defect to be injected for CPRI 24.3G At *RST condition, this value is set to FSERR. Navigation Path: Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FEC error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE FUCW SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE? Returns: FUCW
See Also	SOUR:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE SOUR:DATA:TELecom:CPRI:FEC:ERRor:AMOUnt SOUR:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELeom:CPRI:FEC:ERRor:MANual:TYPE?

Description	This query returns the manual RS-FEC error Defect to be injected for CPRI 24.3G. At *RST condition, this value is set to FSERR. Navigation Path: Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:CPRI:FEC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the FEC error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FSERR: Pre-FEC-SYMB
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE FSERR SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE? Returns: FSERR
See Also	SOUR:DATA:TELeom:CPRI:FEC:ERRor:MANual:TYPE SOUR:DATA:TELeom:CPRI:FEC:ERRor:AMOUnt SOUR:DATA:TELeom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate Interface (CPRI) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT ON
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:INTErface:ERRor:AUTomated:CONTInuous

Description	This command sets the automated Interface (CPRI) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:INTErface:ERRor:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:INTErface:ERRor:MANual:INJect

:SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated Interface (CPRI) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:CONT?
See Also	SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELeom:CPRI:INTErface:ERRor:AUTomated:RATE

Description	This command sets the automated Interface (CPRI) error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:CPRI:INTErface:ERRor:AUTomated:RATE <wsp> <RATE>
Parameter(s)	RATE: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. Range is 1.0E-09 to 2.2E-04. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:RATE
See Also	SOURce:DATA:TELeom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELeom:CPRI:INTErface:ERRor:AUTomated:RATE?	
Description	This query returns the automated Interface (CPRI) error Rate to be injected. At *RST condition, this value is set to 1.0E-09. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:CPRI:INTErface:ERRor:AUTomated:RATE?[<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:RATE?
See Also	SOURce:DATA:TELeom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE

Description	This command selects the automated Interface (CPRI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE <wsp> <Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CV: Code Violation K307: K30.7 66BBlock: 66B Block SYNCHeader: Sync Header
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?	
Description	This query returns the automated Interface (CPRI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CV: Code Violation K307: K30.7 66BBLOCK: 66B Block SYNCHHEADER: Sync Header
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE CV SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE? Returns: CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Interface (CPRI) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUNT	
Description	This command sets the manual Interface (CPRI) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:AMO
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUNT?

Description	This query returns the manual Interface (CPRI) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUNT? [<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset?

:SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:INJect	
Description	This command enables/disables the manual Interface (CPRI) error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:INJ
See Also	SOURce:DATA:TELeom:CPRI:ERRor:MANual:INJect

:SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:TYPE

Description	This command selects the manual Interface (CPRI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:TYPE <wsp><Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CV: Code Violation K307: K30.7 66BBlock: 66B Block SYNCHeader: Sync Header
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELeom:CPRI:ERRor:MANual:AMOUNT

:SOURce:DATA:TELecom:CPRI:INTErface:ERRor:MANual:TYPE?	
Description	This query returns the manual Interface (CPRI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTErface:ERRor:MANual:TYPE?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CV: Code Violation K307: K30.7 66BBLOCK: 66B Block SYNCHHEADER: Sync Header
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEfect?

:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect

Description	This command selects the continuous OBSAI alarm Defect to be injected. At *RST condition, this defect type is LOF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect[<wsp><Alarm>]
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:DEF LOF
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:DEFect?	
Description	This query returns the continuous OBSAI alarm Defect to be injected. At *RST condition, this Defect type LOF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:DEFect?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:DEF?
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:GENerate

Description	This command enables/disables the continuous OBSAI alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:ALARm:GENerate <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. SStarts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:GEN ON
See Also	SOURce:DATA:TELEcom:CPRI:ALARm:GENerate?

:SOURce:DATA:TELeom:CPRI:OBSai:ALARm:GENerate?	
Description	This query returns the enable/disable status of the continuous OBSAI alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:ALARm:GENerate?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:GEN ON?
See Also	SOURce:DATA:TELeom:CPRI:ALARm:GENerate ON

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate OBSAI error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:INTErface:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CON Tinuuous	
Description	This command sets the automated OBSAI error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEfect?

**:SOURce:DATA:TELeom:CPRI:OBSai:ERRor:AUTomated:CON
Tinuous?**

Description	This query returns the automated OBSAI error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Mode
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:ERRor:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:CONT?
See Also	SOURce:DATA:TELeom:CPRI:VERDict:ENABLE

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFe ct	
Description	This command selects the automated OBSAI error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFe ^{ct} <wsp><Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:DEF FAS
See Also	SOURce[1..n]:DATA:TELecom:CPRI:ERRor:MANual:DEFe ^{ct}

**:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFe
ct?**

Description	This query returns the automated OBSAI error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFe^{ct}?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFe^{ct}?

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:RATE	
Description	This command sets the automated OBSAI error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:RATE 1.0E-04
See Also	SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE?

Description	This query returns the automated OBSAI error Rate to be injected. At *RST condition, this value is set to 1.0E-07. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:INTErface:ERRor:AUTomated:RATE?

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate OBSAI error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT ON SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT?
See Also	SOURce:DATA:TELEcom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOUNT

Description	This command sets the manual OBSAI error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:MAN:AMO 1
See Also	SOURce:DATA:TELecom:CPRI:INTERface:ERRor:MANual:AMOUNT

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOUNT?	
Description	This query returns the manual OBSAI error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOUNT? [<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:INterface:ERRor:MANual:AMOUNT?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect

Description	This command selects the automated OBSAI error Defect to be injected. At *RST condition, this Defect type FAS. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect <wsp> <Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:DEF FAS
See Also	SOURce[1..n]:DATA:TELecom:CPRI:ALARm:DEFect

:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:DEFect?	
Description	This query returns the automated OBSAI error Defect to be injected. At *RST condition, this Defect type FAS. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:ERRor:MANual:DEFect?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:MAN:DEF?
See Also	SOURce:DATA:TELEcom:CPRI:ALARm:DEFect?

:SOURce:DATA:TELeom:CPRI:OBSai:ERRor:MANual:INJect

Description	This command enables/disables the manual OBSAI error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:ERRor:MANual:INJect
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:MAN:INJect
See Also	SOURce:DATA:TELeom:CPRI:INTerface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate Interface (OBSAI) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous

Description	This command sets the automated Interface (OBSAI) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:INTERface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated Interface (OBSAI) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:CPRI:INTERface:ERRor:AUTomated?

:SOURce:DATA:TELeom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE

Description	This command sets the automated Interface (OBSAI) error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:RATE
See Also	SOURce:DATA:TELeom:CPRI:ERRor:MANual:DEfect?

:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE?	
Description	This query returns the automated Interface (OBSAI) error Rate to be injected. At *RST condition, this value is set to 1.0E-09. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:OBSai:INTErface:ERRor:AUTomated:TYPE

Description	This command selects the automated Interface (OBSAI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTErface:ERRor:AUTomated:TYPE <wsp><Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CV: Code Violation K307: K30.7
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOUnt

:SOURce:DATA:TELecom:CPRI:OBSai:INTErface:ERRor:AUTomated:TYPE?	
Description	This query returns the automated Interface (OBSAI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTErface:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CV: Code Violation K307: K30.7
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE? Returns: CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELeom:CPRI:OBSai:INTERface:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Interface (OBSAI) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELeom:CPRI:OBSai:INTERface:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT?
See Also	SOURce:DATA:TELeom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:MANua I:AMOUNT	
Description	This command sets the manual Interface (OBSAI) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTERface:ERRor:MANual:AMOUNT[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:AMO
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:AMOUNT?

Description	This query returns the manual Interface (OBSAI) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:AMOUNT?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error.
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:AMO?
See Also	SOURce:DATA:TELEcom:CPRI:RTD:TOFFset?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:INJect	
Description	This command enables/disables the manual Interface (OBSAI) error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect

**:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANua
I:TYPE**

Description	This command selects the manual Interface (OBSAI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE <wsp> <Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CV: Code Violation K307: K30.7
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOUnt

:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:TYPE?	
Description	This query returns the manual Interface (OBSAI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:CPRI:OBSai:INTERface:ERRor:MANual:TYPE?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CV: Code Violation K307: K30.7
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

Description	This command enables/disables the continuous DS1/DS3 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1 ON
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE	
Description	This command selects the continuous DS1/DS3 alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS IDLE1: Idle (DS3) OOF RAI: RAI (DS1) RDI: RDI (DS3)
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

Description	This query returns the continuous DS1/DS3 alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS IDLE1: Idle (DS3) OOF RAI: RAI (DS1) RDI: RDI (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE AIS SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE? Returns: AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]?	
Description	This query returns the enable/disable status of the continuous DS1/DS3 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1 ON SOUR:DATA:TEL:DSN:ALAR:DS1? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOUNT

Description	This command sets the manual DS1/DS3 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOUNT?

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOut?	
Description	This query returns the manual DS1/DS3 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOut?[<wsp> <Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15 SOUR:DATA:TEL:DSN:ERR:DS1:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOut

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate DS1/DS3 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT ON
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated?

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:CONTInuous	
Description	This command selects the automated DS1/DS3 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Mode
Syntax	:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON: Enabled OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT ON
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:CONTInuous?

**:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CO
NTinuous?**

Description	This query returns the automated DS1/DS3 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT ON SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:CONTinuous

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE	
Description	This command sets the automated DS1/DS3 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE? SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE?

Description	This query returns the automated DS1/DS3 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE	
Description	This command selects the automated DS1/DS3 error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE? SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?

Description	This query returns the manual DS1/DS3 error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE? Returns: CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate DS1/DS3 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:DSN:ERR:DS1:AUT ON SOUR:DATA:TEL:DSN:ERR:DS1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect

Description	This command enables/disables the manual DS1/DS3 error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15 SOUR:DATA:TEL:DSN:ERR:DS1:INJ
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:AMOUnt

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE	
Description	This command selects the manual DS1/DS3 error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE?

:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE?

Description	This query returns the manual _ error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected. CBIT: CP-Bit (DS3) CRC6: CRC-6 (DS1) FBIT: F-Bit (DS3) FEBE: FEBE (DS3) FRBIT: Framing Bit (DS1) OOF PBIT: P-Bit (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6 SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE? Returns: CRC6
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT	
Description	This command enables/disables the continuous electrical Interface alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enabled OFF: Disabled
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT ON SOUR:DATA:TEL:ELEC:ALAR:PORT? Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?

:SOURce:DATA:TELeom:ELECtrical:ALARm:PORT:TYPE?

Description	This query returns the continuous Interface (Electrical) alarm Defect to be injected. At *RST condition, this value is set to LOS. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:ELECtrical:ALARm:PORT:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOS
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT:TYPE? Returns: LOS
See Also	SOURce:DATA:TELeom:OPTical:ALARm:PORT?

:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?	
Description	This query returns the enable/disable status of the continuous electrical Interface alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT ON SOUR:DATA:TEL:ELEC:ALAR:PORT? Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?

:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt

Description	This command sets the manual Interface (Electrical) error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AMO 15 SOUR:DATA:TEL:ELEC:ERR:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOUnt?	
Description	This query returns the manual Interface (Electrical) error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOUnt?[<wsp><Error>]
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error.
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AMO 15 SOUR:DATA:TEL:ELEC:ERR:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Interface (Electrical) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AUT ON SOUR:DATA:TEL:ELEC:ERR:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated?

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE	
Description	TThis command sets the automated Interface (Electrical) error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE 1.0E-09 SOUR:DATA:TEL:ELEC:ERR:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:RATE? SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE?

Description	This query returns the automated Interface (Electrical) error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error.
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE 1.0E-09 SOUR:DATA:TEL:ELEC:ERR:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:TYPE	
Description	This command selects the automated Interface (Electrical) error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:ELECtrical:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BPV EXZ
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE? Returns: BPV
See Also	SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:TYPE? SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELEcom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE?

Description	This query returns the automated Interface (Electrical) error Defect to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BPV EXZ
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE? Returns: BPV
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate Interface (Electrical) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AUT ON SOUR:DATA:TEL:ELEC:ERR:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:INJect

Description	This command enables/disables the manual Interface (Electrical) error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:AMO 15 SOUR:DATA:TEL:ELEC:ERR:INJ
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt

:SOURce:DATA:TELEcom:ELECtrical:ERRor:MANual:TYPE	
Description	This command selects the manual Interface (Electrical) error Defect to be injected. At *RST condition, this value is set to BPV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:ELECtrical:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BPV EXZ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE? Returns: BPV
See Also	SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELeom:ELECtrical:ERRor:MANual:TYPE?

Description	This query returns the manual Interface (Electrical) error Defect to be injected. At *RST condition, this value is set to BPV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:ELECtrical:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BPV EXZ
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE? Returns: BPV
See Also	SOURce:DATA:TELeom:PDH:ERRor:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes	
Description	This command enables/disables the selection of all lanes for transcoding error injection purposes. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Transcoding > All Lanes
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:ALAN ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE

:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:ALANes?

Description	This query returns the enable/disable selection status of all lanes for transcoding error injection purposes. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > All Lanes
Syntax	:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:ALAN?
See Also	SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:LANE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate Transcoding (per Lane) error injection. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous	
Description	This command sets the automated Transcoding (per Lane) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated Transcoding (per Lane) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:CONT?
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomate d:RATE	
Description	This command sets the automated Transcoding (per Lane) error Rate to be injected. At *RST condition, the value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?	
Description	This query returns the automated Transcoding (per Lane) error Rate to be injected. At *RST condition, the value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE	
Description	This command selects the automated Transcoding (per Lane) error Defect to be injected. At *RST condition, the value is set to Invalid Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE OTNBIP8
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?	
Description	This query returns the automated Transcoding (per Lane) error Defect to be injected. At *RST condition, the value is set to Invalid Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE OTNBIP8 SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE? Returns: OTNBIP8
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate Transcoding (per Lane) error injection. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of EOTN automated error generation. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated	
Description	This command enables/disables the Rate/Max Rate Transcoding (global) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous	
Description	This command sets the automated Transcoding (global) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:CONT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous?	
Description	This query returns the automated Transcoding (global) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:CONT?
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE	
Description	This command sets the automated Transcoding (global) error Rate to be injected. At *RST condition, the value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?	
Description	This query returns the automated Transcoding (global) error Rate to be injected. At *RST condition, the value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:RATE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE

Description	This command selects the automated Transcoding (global) error Defect to be injected. At *RST condition, the value is set to Inv. Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: INVALFLAG: Inv. Flag MSEQV
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:TYPE MSEQV
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?	
Description	This query returns the automated Transcoding (global) error Defect to be injected. At *RST condition, the value is set to Inv. Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: INVALFLAG: Inv. Flag MSEQV
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Transcoding (global) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOUNT	
Description	This command sets the manual Transcoding (global) error Amount to be injected. At *RST condition, the value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:AMO 25
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMOUNT

:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOut?

Description	This query returns the manual Transcoding (global) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOut? [<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:AMO?
See Also	SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:MANual:AMOut?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect	
Description	This command enables/disables the manual Transcoding (global) error injection. This command is not associated with any *RST condition. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:INJ
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:INJect

:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE

Description	This command selects the manual Transcoding (global) error Defect to be injected. At *RST condition, the value is set to Inv. Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: INVALFLAG: Inv. Flag MSEQV
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:TYPE MSEQV
See Also	SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?	
Description	This query returns the manual Transcoding (global) error Defect to be injected. At *RST condition, the value is set to Inv. Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: INVALFLAG: Inv. Flag MSEQV
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:LANE

Description	This command enables/disables the selection of a lane for Transcoding error injection purposes. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > Lane
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selets the lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables a lane. ON: Enables the particular lane. OFF: Disables the particular lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:LANE 1, ON
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:ALANes

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE?	
Description	This query returns the enables/disables selection status of a lane for Transcoding error injection purposes. At *RST condition, the value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > Lane
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of a particular lane. 1: Particular lane is enabled. 0: Particular lane is disabled.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:LANE? 1
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes?

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMOUNT

Description	This command sets the manual Transcoding (per Lane) error Amount to be injected. At *RST condition, the value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:AMO 25
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOUNT

:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMount?	
Description	This query returns the manual Transcoding (per Lane) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:MANual:AMount?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:AMO?
See Also	SOURce:DATA:TELEcom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMount?

:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:MANual:INJect

Description	This command enables/disables the manual Transcoding (per Lane) error injection. This is an event and not associated with any *RST condition. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:INJ
See Also	SOURce:DATA:TELeom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE	
Description	This command selects the automated Transcoding (per Lane) error Defect to be injected. At *RST condition, the value is set to Invalid Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:TYPE PCSBIP8MASK
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?

Description	This query returns the automated Transcoding (per Lane) error Defect to be injected. At *RST condition, the value is set to Invalid Flag. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OTNBIP8: OTN BIP-8 PCSBIP8MASK: PCS BIP-8 Mask
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe	
Description	This command enables/disables the continuous Ethernet alarm injection (rates up to 25G or FlexE client). This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject Navigation Path: Results > Alarms/Errors > Injection > FLExE - Client > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON, Enables alarm generation. OFF, Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN SOURce:DATA:TELecom:ETHernet:ALARm:LRATe ON SOURce:DATA:TELecom:ETHernet:ALARm:LRATe? Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE

Description	This command selects the continuous alarm Defect to be injected (rates up to 25G or FlexE client). *RST condition, Value is set to LDOWN. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect Navigation Path: Results > Alarms/Errors > Injection > FLeX E - Client > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE <wsp> <Alarm Type>
Parameter(s)	Alarm Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LDOWn: Link Down LFAult: Local Fault RFAult: Remote Fault
Response Syntax	<Error>
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE? Returns: LDOWN
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?	
Description	This query returns the continuous alarm Defect to be injected (rates up to 25G or FlexE client). *RST condition, Value is set to LDOWN. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect Navigation Path: Results > Alarms/Errors > Injection > FLeXE - Client > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?
Response Syntax	<Alarm type>
Response(s)	Alarm type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LDOWn: Link Down LFAult: Local Fault RFAult: Remote Fault
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE? Returns: LDOWN
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?

Description	This query returns the enable/disable status of the continuous Ethernet alarm injection (rates up to 25G or FlexE client). This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject Navigation Path: Results > Alarms/Errors > Injection > FLExE - Client > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1, Alarm generation is enabled. 0, Alarm generation is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN SOURce:DATA:TELecom:ETHernet:ALARm:LRATe ON SOURce:DATA:TELecom:ETHernet:ALARm:LRATe? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical

Description	This command enables/disables the continuous Ethernet (40G and up) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS ON SOUR:DATA:TEL:ETH:ALAR:PHYS? Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

Description	This command selects the continuous Ethernet (40G and up) alarm Defect to be injected. At *RST condition, this value is set to LDOWn. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LDOWn: Link Down LFAult: Local Fault RFAult: Remote Fault
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE LFA SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE? Returns: LFAULT
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?	
Description	This query returns the continuous Ethernet (40G and up) alarm Defect to be injected. At *RST condition, this value is set to LDOWn. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LDOWn: Link Down LFAult: Local Fault RFAult: Remote Fault
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE LFA SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE? Returns: LFAULT
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?	
Description	This query returns the enable/disable status of the continuous Ethernet (40G and up) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF SOUR:DATA:TEL:ETH:ALAR:PHYS? Returns: 0
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold	
Description	This command sets the Alarm Threshold value. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets Skew Alarm Threshold. MAXimum MINimum
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR 20
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault

Description	This command resets the Alarm Threshold value to its default value. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold Default (button) Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold Default (button) Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold Default (button)
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR:DEF
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?	
Description	This query returns the Alarm Threshold value. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return the skew alarm threshold. MAXimum MINimum
Response Syntax	<Skew Alarm Threshold>
Response(s)	Skew Alarm Threshold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Skew Alarm Threshold.
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR 20 SOUR:DATA:TEL:ETH:ALAR:THR? Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOut

Description	This command sets the manual Ethernet/PCS error Amount to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported amount MINimum: Smallest supported amount DEFault: Default amount
Response Syntax	<Skew Alarm Threshold>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO 50 SOUR:DATA:TEL:ETH:ERR:LRATe:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOut? SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOUNT?	
Description	This query returns the manual Ethernet/PCS error Amount to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOUNT?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO 50 SOUR:DATA:TEL:ETH:ERR:LRATe:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE? SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUNT SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated

Description	This command enables/disables the Rate/Max Rate Ethernet/PCS error injection (rates up to 25G or FlexE client). This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON,Enables the Atomated error type. OFF,Disables the Atomated error type.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT ON SOUR:DATA:TEL:ETH:ERR:LRATe:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous	
Description	This command sets the automated Ethernet/PCS error Mode (rates up to 25G or FlexE client): ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON, Enables the continuous rate. OFF, Disables the continuous rate.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT OFF SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE?

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous?

Description	This query returns the automated Ethernet/PCS error Mode (rates up to 25G or FlexE client): ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: ON for Max Rate and OFF for Rate. 1, Continuous rate is enabled. 0, Continuous rate is disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT ON SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:RATE	
Description	This command sets the automated Ethernet/PCS error Rate to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:RATE MIN
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUNT

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE?

Description	This query returns the automated Ethernet/PCS error Rate to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUnt?

:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:TYPE	
Description	This command selects the automated Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:LRATe:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BLOCK: Block or 65B BLOCK SYMBOL: Symbol
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE SYMBOL SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE? Returns: SYMBOL
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELeom:ETHernet:ERRor:LRATe:AUTomated:TYPE?

Description	This query returns the automated Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELeom:ETHernet:ERRor:LRATe:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BLOCK: Block or 65B BLOCK SYMBOL: Symbol
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE SYMBOL SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE? Returns: SYMBOL
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet/PCS error injection (rates up to 25G or FlexE client). This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1, Automated error type is Enabled. 0, Automated error type is Disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT ON SOUR:DATA:TEL:ETH:ERR:LRATe:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect

Description	This command enables/disables the manual Ethernet/PCS error injection (rates up to 25G or FlexE client). This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE? SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUnt

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE

Description	This command selects the manual Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BLOCK: Block or 65B BLOCK SYMBOL: Symbol
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE SYMBOL SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE? Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUNT SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJECT

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE?

Description	This query returns the manual Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client). At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BLOCK: Block or 65B BLOCK SYMBol: Symbol
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE SYMBOL SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE? Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUNT SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJECT

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOut	
Description	This command sets the manual Ethernet error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AMO 50 SOUR:DATA:TEL:ETH:ERR:MAC:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOut? SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELeom:ETHernet:ERRor:MAC:AMOut?

Description	This query returns the manual Ethernet error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Amount
Syntax	:SOURce:DATA:TELeom:ETHernet:ERRor:MAC:AMOut?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AMO 50 SOUR:DATA:TEL:ETH:ERR:MAC:AMO? Returns: 50
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:MAC:TYPE? SOURce:DATA:TELeom:ETHernet:ERRor:MAC:AMOut SOURce:DATA:TELeom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated	
Description	This command enables/disables the Rate/Max Rate Ethernet error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enabled OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT OFF SOUR:DATA:TEL:ETH:ERR:MAC:AUT? Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTInuous

**:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:C
ONTinuous**

Description	This command sets the automated Ethernet error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTinuous <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON: Enabled OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT OFF SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE?

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous?

Description	This query returns the automated Ethernet error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: ON for Max Rate and OFF for Rate. 1, Returns the status of continuous rate as ON. 0, Returns the status of continuous rate as OFF.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT ON SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE

Description	This command sets the automated Ethernet error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUNT

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE?	
Description	This query returns the automated Ethernet error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:RATE?
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUnt?

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:TYPE

Description	This command selects the automated Ethernet error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:TYPE <wsp> <Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE FCS SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE? Returns: FCS
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?	
Description	This query returns the automated Ethernet error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCS
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet error injection. This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT ON SOUR:DATA:TEL:ETH:ERR:MAC:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:INJect	
Description	This command enables/disables the manual Ethernet error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:INJ
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:TYPE? SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUnt

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

Description	This command selects the manual Ethernet error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCS
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE? Returns: FCS
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOUnt SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:MANual:TYPE?	
Description	This query returns the manual Ethernet error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCS
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE? Returns: FCS
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:AMOUnt SOURce:DATA:TELEcom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize

Description	This command allows monitoring of the Oversize frame errors. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Ethernet > Oversized Monitoring
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Allows monitoring of the Oversize frame errors. ON, sets the oversize frame error to ON. OFF, sets the oversize frame error to OFF.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:OVER ON SOUR:DATA:TEL:ETH:ERR:MAC:OVER? Returns: 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize?	
Description	This query returns the status of the monitoring of the Oversize frame errors. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Ethernet > Oversized Monitoring
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the monitoring of Oversize frame errors. 1, oversize frame error is ON. 0, oversize frame error is OFF.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:OVER ON SOUR:DATA:TEL:ETH:ERR:MAC:OVER? Returns: 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

:SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:ALANes

Description	This command enables/disables the selection of all lanes for PCS error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > All Lanes Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > All Lanes
Syntax	:SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN ON SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:LANE?

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:ALANes?	
Description	This query returns the enable/disable selection status of all lanes for PCS error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > All Lanes Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > All Lanes
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:ALANes?
Response Syntax	<Lane>
Response(s)	Lane: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN ON SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:LANE

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUNT

Description	This command sets the amount of physical error to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Global Injection > Layer (PCS/FEC/RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. DEfault: Default amount of physical error MAXimum: Gretest supported amount MINimum: Smalles supported amount
Response Syntax	<Lane>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 50 SOUR:DATA:TEL:ETH:ERR:PHYS:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE? SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUNT? SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMOUNT?	
Description	This query returns the manual Ethernet / PCS/ RS-FEC Lanes error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Amount Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMOUNT?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 50 SOUR:DATA:TEL:ETH:ERR:PHYS:AMO? Returns: 50
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMOUNT SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated

Description	This command enables/disables the Rate/Max Rate Ethernet / PCS / RS-FEC Lanes error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT OFF SOUR:DATA:TEL:ETH:ERR:PHYS:AUT? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous

Description	This command sets the automated Ethernet / PCS / RS-FEC Lanes error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT OFF SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous?

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT ON SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE

Description	This command sets the automated Ethernet / PCS / RS-FEC Lanes error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:RATE MIN
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AMOUNT

**:SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:AUTomate
d:RATE?**

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Rate to be injected. At *RST condition, this value is set to 1.0E-02. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:AUTomated:RATE?[<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default rate
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:RATE?
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:PHYSical:AMOUnt?

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE	
Description	This command selects the automated Ethernet / PCS / RS-FEC Lanes error Defect to be injected. At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. SSelects the error to be injected: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FCCW: FEC-COR-CW FSERR: FEC-SYMB FUCW: FEC-UNCOR-CW INVALIDMARKER: Inv. Marker ICWM: Invalid Codeword Marker
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:TYPE BLOCK
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:MANual:TYPE

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Defect to be injected. At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FCCW: FEC-COR-CW FSERR: FEC-SYMB FUCW: FEC-UNCOR-CW INVALIDMARKER: Inv. Marker ICWM: Invalid Codeword Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet / PCS / RS-FEC Lanes error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT ON SOUR:DATA:TEL:ETH:ERR:PHYS:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:PHYSical:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Description	This command enables/disables the manual Ethernet / PCS / RS-FEC Lanes error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Inject Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:TYPE? SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUnt?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE	
Description	This command enables/disables the selection of a lane for PCS / RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Lane Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number for which injection is to be done for PCS errors. Set: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the per lane status for PCS errors. ON, Enables the particular lane. OFF, Disables the particular lane.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE 1, ON SOUR:DATA:TEL:ETH:ERR:PHYS:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE?

Description	This query returns the enable/disable selection status of a lane for PCS / RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > PCS > Lane Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE? <wsp> <Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the lane number for which injection is to be done for PCS errors.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of particular lane for PCS errors. 1, Status of a particular lane is enabled. 0, Status of a particular lane is disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE 1, ON SOUR:DATA:TEL:ETH:ERR:PHYS:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE	
Description	This command selects the manual Ethernet / PCS / RS-FEC Lanes error Defect to be injected. At *RST condition, this value is set to INVALIDMARKER. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FCCW: FEC-COR-CW FSERR: FEC-SYMB FUCW: FEC-UNCOR-CW INVALIDMARKER: Inv. Marker ICWM: Invalid Codeword Marker
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE BLOC SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE? Returns: BLOCK
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUnt SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

Description	This query returns the manual Ethernet / PCS / RS-FEC Lanes error Defect to be injected. At *RST condition, this value is set to BLOCK. Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BIP8: PCS BIP-8 BLOCK: Block or 66B Block for 40G/100G/400G FCCW: FEC-COR-CW FSERR: FEC-SYMB FUCW: FEC-UNCOR-CW INVALIDMARKER: Inv. Marker ICWM: Invalid Codeword Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE BLOC SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE? Returns: BLOCk
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOUNT SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:ALANes	
Description	This command enables/disables the selection of all lanes for RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane - All
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN ON SOUR:DATA:TEL:ETH:ERR:RSF:ALAN? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:LANE?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes?

Description	This query returns the enable/disable selection status of all lanes for RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane - All
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN ON SOUR:DATA:TEL:ETH:ERR:RSF:ALAN? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE

:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated	
Description	This command enables/disables the Rate/Max Rate RS-FEC error injection for selected lane(s). At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT OFF SOUR:DATA:TEL:ETH:ERR:RSF:AUT? Returns: 0
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated:CONTInuous

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTInuous

Description	This command sets the automated RS-FEC error mode for selected lane(s): ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT OFF SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated

:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated:CONTInuous?	
Description	This query returns the automated RS-FEC error mode for selected lane(s): ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT ON SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE

Description	This command sets the automated RS-FEC error injection rate for selected lane(s). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE?	
Description	This query returns the automated RS-FEC error injection rate for selected lane(s). At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest rate MINimum: Smallest rate
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE

Description	This command selects the automated RS-FEC error Defect for selected lane(s). At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FCSymb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:TYPE FCCW
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE?	
Description	This query returns the automated RS-FEC error Defect for selected lane(s). At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FCSYmb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate RS-FEC error injection for selected lane(s). At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT ON SOUR:DATA:TEL:ETH:ERR:RSF:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous?

:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:LANE	
Description	This command enables/disables the selection of a lane for RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number. Set: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables the selected lane for coming error injections. ON: Enables the particular lane. OFF: Disables the particular lane.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:LANE 1, ON SOUR:DATA:TEL:ETH:ERR:RSF:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ERRor:RSFec:ALANes?

:SOURce:DATA:TELeom:ETHernet:ERRor:RSFec:LANE?

Description	This query returns the enable/disable selection status of a lane for RS-FEC error injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELeom:ETHernet:ERRor:RSFec:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of a lane for error injection. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:LANE 1, ON SOUR:DATA:TEL:ETH:ERR:RSF:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:RSFec:ALANes

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOUNT	
Description	This command sets the amount of physical error to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Global Injection > Layer (RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. DEfault: Default amount of physical error MAXimum: Grestest supported amount MINimum: Smalles supported amount
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO 50 SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AM Ount?	
Description	This query returns the manual RS-FEC error Amount to be injected for selected lane(s). At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMount?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO 50 SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INject

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect	
Description	This command enables/disables the manual RS-FEC error injection for selected lane(s). This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE? SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOUnt?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE	
Description	This command selects the manual RS-FEC error Defect to be injected for selected lane(s). At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FCSymb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE FUCW SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE? Returns: FUCW

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?	
Description	This query returns the manual RS-FEC error Defect to be injected for selected lane(s). At *RST condition, this value is set to Invalid Marker. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Selects the error to be injected: FCCW: FEC-COR-CW FUCW: FEC-UNCOR-CW FCSymb: FEC-SYMB FECINVALIDMARKER: FEC Inv. Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE FUCW SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INject

:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical

Description	This command enables/disables the continuous PCS (400G) alarm generation. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS OFF SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS? Returns: 0
See Also	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF SOUR:DATA:TEL:ETH:ALAR:PHYS?

:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE	
Description	This command selects the continuous PCS (400G) alarm Defect to be injected. At *RST condition, this value is set to LDSERR. Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LDSERR: L Deg SER Rcd RDSEr: R Deg SER
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE RDSEr SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE? Returns: RDSEr
See Also	SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE?

Description	This query returns the enable/disable status of the continuous PCS (400G) alarm Defect to be injected. At *RST condition, this value is set to LDSERR. Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:ETHernet:PCS:ALARm:PHYSical:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LDSERR: L Deg SER Rcd RDSER: R Deg SER
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE RDSER SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE? Returns: RDSER
See Also	SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical:TYPE?

:SOURce:DATA:TELeom:ETHernet:PCS:ALARm:PHYSical?	
Description	This query returns the enable/disable status of the continuous PCS (400G) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELeom:ETHernet:PCS:ALARm:PHYSical?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS OFF SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS? Returns: 0
See Also	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF SOUR:DATA:TEL:ETH:ALAR:PHYS?

:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq

Description	This command enables/disables the Payload Label Mismatch - Path/Unequipped - Path (PLM-P / UNEQ-P) generation. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > WIS > PLM-P/UNEQ-P (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:WIS:PLM ON SOUR:DATA:TEL:ETH:WIS:PLM? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:WIS:TRACe?

:SOURce:DATA:TELEcom:ETHernet:WIS:PLMuneq?	
Description	This query returns the status of Payload Label Mismatch - Path/Unequipped - Path (PLM-P / UNEQ-P) generation. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > WIS > PLM-P/UNEQ-P (10GEWAN)
Syntax	:SOURce:DATA:TELEcom:ETHernet:WIS:PLMuneq?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Plm/Uneq. 1, Plm/Uneq enabled. 0, Plm/Uneq disabled.
Example(s)	SOUR:DATA:TEL:ETH:WIS:PLM ON SOUR:DATA:TEL:ETH:WIS:PLM? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:WIS:TRACe

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm

Description	This command enables/disables the continuous FlexE - Group alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: enables alarm injection OFF: disables alarm injection
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR ON SOUR:DATA:TEL:FETH:PHY:ALAR? Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT SOUR:DATA:TEL:FETH:PHY:ERR:AUT? SOUR:DATA:TEL:FETH:PHY:ALAR?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY	
Description	This command selects the PHY number for FlexE - Group alarm injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY <wsp> <Phynumber>, <Status>
Parameter(s)	Phynumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number. Status: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables a PHY for injection. ON: sets selected phy injection to on OFF: sets selected phy injection to off
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY 2, ON SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY? Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY?

Description	This query returns if the PHY number is selected for FlexE - Group alarm injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY? <wsp><Phynumber>
Parameter(s)	Phynumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disables status of a PHY for injection.
Example(s)	LINS:SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY 2, ON LINS:SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY? Returns: 1
See Also	LINS:SOUR:DATA:TEL:FLEXE:PHY:ERR:SEL? LINS:SOUR:DATA:TEL:FLEXE:PHY:ALAR:SELP?

:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:TYPE	
Description	This command selects the continuous FlexE - Group alarm Defect to be injected. At *RST condition, this alarm type is set to REMPHYFAULT Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:FETHernet:PHY:ALARm:TYPE <wsp><Alarmtype>
Parameter(s)	Alarmtype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOSSFLOCK: Loss of OH Frame Lock LOSSMFLOCK: Loss of OH MF Lock REMPHYFAULT: Remote PHY Fault
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE LOSSFLOCK SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE? Returns: LOSSFLOCK
See Also	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE? SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELeom:FETHernet:PHY:ALARm:TYPE?

Description	This query returns the continuous FlexE - Group alarm Defect to be injected. At *RST condition, this Defect type REMPHYFAULT Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:FETHernet:PHY:ALARm:TYPE?
Response Syntax	<Alarmtype>
Response(s)	Alarmtype: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns FlexE Group PHY alarm. REMPHYFAULT: Remote PHY Fault LOSSFLOCK: Loss of OH Frame Lock LOSSMFLOCK: Loss of OH MF Lock
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE LOSSFLOCK SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE? Returns: LOSSFLOCK
See Also	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm?	
Description	This query returns the enable/disable status of the continuous FlexE - Group alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR ON SOUR:DATA:TEL:FETH:PHY:ALAR? Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT SOUR:DATA:TEL:FETH:PHY:ERR:AUT? SOUR:DATA:TEL:FETH:PHY:ALAR

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexE - Group error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT ON SOUR:DATA:TEL:FETH:PHY:ERR:AUT? Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:C ONTInuous	
Description	This command sets the automated FlexE - Group error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ? Returns: 1

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:CONTInuous?

Description	This query returns the automated FlexE - Group error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Mode
Syntax	:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ? Returns: 1

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE	
Description	This command sets the automated FlexE - Group error Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE? Returns: 1.0E-2
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE?

Description	This query returns the automated FlexE - Group error Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE? Returns: 1.0E-2
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE	
Description	This command selects the automated FlexE - Group error Defect to be injected. At *RST condition, this Defect type is set to OHCRC Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE <wsp> <Defect>
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OHCRC
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE OHCRC SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE? Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE?

Description	This query returns the automated FlexE - Group error Defect to be injected. At *RST condition, this Defect type OHCRC. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OHCRC
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE OHCRC SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE? Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Group error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT ON SOUR:DATA:TEL:FETH:PHY:ERR:AUT? Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOUNT

Description	This command sets the manual FlexE - Group error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? MAX Returns: 50
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOUnt?	
Description	This query returns the manual FlexE - Group error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOUnt?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? MAX Returns: 50
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO

:SOURce:DATA:TELeom:FETHernet:PHY:ERRor:MANual:INJect

Description	This command enables/disables the manual FlexE - Group error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:FETHernet:PHY:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SEL 2, on SOUR:DATA:TEL:FETH:PHY:ERR:MAN:INJ
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SEL

:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:TYPE	
Description	This command selects the manual FlexE Group error Defect to be injected. At *RST condition, this value is set to OHCRC Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:FETHernet:PHY:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OHCRC
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE OHCRC SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE? Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE ?

Description	This query returns the manual FlexE Group error Defect to be injected. At *RST condition, this value is set to OHCRC Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OHCRC
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE OHCRC SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE? Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY	
Description	This command selects the PHY number for FlexE - Group error injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY <wsp><Phynumber>, <Status>
Parameter(s)	Phynumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number. Status: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables a PHY for injection. ON: sets selected phy injection to on OFF: sets selected phy injection to off
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY 2, ON SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? 2 Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELeom:FETHernet:PHY:ERRor:SPHY?

Description	This query returns if the PHY number is selected for FlexE - Group error injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > PHY
Syntax	:SOURce:DATA:TELeom:FETHernet:PHY:ERRor:SPHY? <wsp><Phynumber>
Parameter(s)	Phynumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disables status of a PHY for injection.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY 2, ON SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? 2 Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHerNet:PHY:SINStance	
Description	This command selects the Instance number for FlexE - Group alarm/ error injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm/Error > PHY / Instance
Syntax	:SOURce:DATA:TELecom:FETHerNet:PHY:SINStance <wsp><PHY>, <Instance>, <Status>
Parameter(s)	PHY: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number. Instance: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Instance number. Status: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables a Instance for injection. ON: sets selected instance injection to on OFF: sets selected Instance injection to off
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SINS 1,0,ON SOUR:DATA:TEL:FETH:PHY:SINS? 1,0 Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELeom:FETHernet:PHY:SINStance?

Description	This query returns if the Instance number is selected for FlexE - Group alarm/error injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm/Error > PHY / Instance
Syntax	:SOURce:DATA:TELeom:FETHernet:PHY:SINStance? <wsp><PHY>, <Instance>
Parameter(s)	PHY: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the PHY number. Instance: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Instance number.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disables status of a Instance for injection.
Example(s)	SOUR:DATA:TEL:FETH:PHY:SINS 1,0,ON SOUR:DATA:TEL:FETH:PHY:SINS? 1,0 Returns: 1
See Also	LINS:SOUR:DATA:TEL:FLEXE:PHY:ERR:SEL? LINS:SOUR:DATA:TEL:FLEXE:PHY:ALAR:SELP?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm	
Description	This command enables/disables the continuous FlexE - Path OAM Basic OAM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: enables alarm injection OFF: disables alarm injection
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR ON SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE

Description	This command selects the continuous FlexE - Path OAM Basic OAM alarm Defect to be injected. At *RST condition, this alarm type is set to REMPHYFAULT Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE <wsp> <Alarm Type>
Parameter(s)	Alarm Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: BCSLF: Basic OAM Client Signal Local Fault BCSLPI: Basic OAM Client Signal Low Power Indication BCSRF: Basic OAM Client Signal Remote Fault BLOCONT: Basic OAM Loss Of Continuity BRDI: Basic OAM Remote Defect Indication
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE BCSLF SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE? Returns: BCSLF
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE?	
Description	This query returns the continuous FlexE - Path OAM Basic OAM alarm Defect to be injected. At *RST condition, this Defect type BLOCONT Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE?
Response Syntax	<Alarm Type>
Response(s)	Alarm Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns FlexE Path OAM BOAM alarm. BCSLF: Basic OAM Client Signal Local Fault BCSLPI: Basic OAM Client Signal Low Power Indication BCSRF: Basic OAM Client Signal Remote Fault BLOCONT: Basic OAM Loss Of Continuity BRDI: Basic OAM Remote Defect Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE BCSLF SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE? Returns: BCSLF
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?

Description	This query returns the enable/disable status of the continuous FlexE - Path OAM Basic OAM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR ON SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate FlexE - Path OAM Basic OAM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT ON SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT? Returns: ON
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous	
Description	This command sets the automated FlexE - Path OAM Basic OAM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated FlexE - Path OAM Basic OAM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE

Description	This command sets the automated FlexE - Path OAM Basic OAM error Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE? Returns: 1.0E-2
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?	
Description	This query returns the automated FlexE - Path OAM Basic OAM error Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE? Returns: 1.0E-2
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE

Description	This command selects the automated FlexE - Path OAM Basic OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE BREI SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE? Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?	
Description	This query returns the automated FlexE - Path OAM Basic OAM error Defect to be injected. At *RST condition, this Defect type OHCRC. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE BREI SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE? Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Path OAM Basic OAM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT ON SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:AUTomated

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut	
Description	This command sets the manual FlexE - Path OAM Basic OAM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut?

:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut?

Description	This query returns the manual FlexE - Path OAM Basic OAM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut? [<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? MAX Returns: 50 SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? Returns: 50
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:BOAM:ERRor:MANual:AMOut

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJect

Description	This command enables/disables the manual FlexE - Path OAM Basic OAM error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE

Description	This command selects the manual FlexE - Path OAM Basic OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE BREI SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE? Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?	
Description	This query returns the manual FlexE - Path OAM Basic OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE BREI SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE? Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE

:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexE - Path OAM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT ON SOUR:DATA:TEL:FETH:POAM:ERR:AUT? Returns: ON

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTInuous	
Description	This command sets the automated FlexE - Path OAM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT? Returns: 1

:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:CONTInuous?

Description	This query returns the automated FlexE - Path OAM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT ON SOUR:DATA:TEL:FETH:POAM::ERR:AUT:CONT? Returns: 1

:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE	
Description	This command sets the automated FlexE - Path OAMerror Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE? Returns: 1.0E-2

:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE?

Description	This query returns the automated FlexE - Path OAM error Rate to be injected. At *RST condition, this value is set to 1.0E-4. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported rate MINimum: Smallest supported rate DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE MAX SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE? Returns: 1.0E-2

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :TYPE	
Description	This command selects the automated FlexE - Path OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CRC4: Cyclic Redundancy Check over 4 bits
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE CRC4 SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE? Returns: CRC4

**:SOURce:DATA:TELeom:FETHernet:POAM:ERRor:AUTomated
:TYPE?**

Description	This query returns the automated FlexE - Path OAM error Defect to be injected. At *RST condition, this Defect type OHCRC. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELeom:FETHernet:POAM:ERRor:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Selects the error to be injected: CRC4: Cyclic Redundancy Check over 4 bits
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE CRC4 SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE? Returns: CRC4

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Path OAM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT ON SOUR:DATA:TEL:FETH:POAM:ERR:AUT? Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMount

Description	This command sets the manual FlexE - Path OAM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMount <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO? Returns: 50

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOUNT?	
Description	This query returns the manual FlexE - Path OAM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOUNT?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO 12 SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO? Returns: 12 SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO MAX SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO? Returns: 50

**:SOURce:DATA:TELeom:FETHernet:POAM:ERRor:MANual:INJ
ect**

Description	This command enables/disables the manual FlexE - Path OAMerror injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:FETHernet:POAM:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:INJ

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE	
Description	This command selects the manual FlexE - Path OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CRC4: Cyclic Redundancy Check over 4 bits
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE BREI SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE? Returns: BREI

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?

Description	This query returns the manual FlexE - Path OAM error Defect to be injected. At *RST condition, this Defect type is set to BBIP8. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Selects the error to be injected: CRC4: Cyclic Redundancy Check over 4 bits
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE CRC4 SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE? Returns: BREI

:SOURce:DATA:TELEcom:FIBer:ALARm:RSFec	
Description	This command enables/disables the continuous RS-FEC (64G) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC> Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:FIBer:ALARm:RSFec <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF ON
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?

Description	This query returns the continuous Fiber Channel RS-FEC (64G) alarm Defect to be injected. At *RST condition, this value is set to RD. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: RD: Remote Degrade
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF:TYPE? Returns: RD
See Also	SOURce:DATA:TELecom:ETHeRnet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELecom:FIber:ALARm:RSFec?	
Description	This query returns the enable/disable status of the continuous RS-FEC (64G) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC> Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FIber:ALARm:RSFec?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF ON SOUR:DATA:TEL:FIB:ALAR:RSF? Returns: 1
See Also	SOURce:DATA:TELecom:FIber:ALARm:RSFec:TYPE?

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Fibre Channel error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT ON SOUR:DATA:TEL:FIB:ERR:AUT? Returns: ON
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTInuous	
Description	This command selects the automated Fibre Channel error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:CONT ON SOUR:DATA:TEL:FIB:ERR:AUT:CONT? Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTInuous?

Description	This query returns the automated Fibre Channel error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Test > Fiber Channel > Results > Layer (Fibre Channel) > Type (Errors) > Mode (MaxRate)
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTInuous?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:CONT ON SOUR:DATA:TEL:FIB:ERR:AUT:CONT? Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE	
Description	This command sets the automated Fibre Channel error Rate to be injected. At *RST condition, this value is set to 0.0001. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the rate of error to be injected.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:RATE 0.00065 SOUR:DATA:TEL:FIB:ERR:AUT:RATE? Returns: 0.00065
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:RATE

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE?

Description	This query returns the automated Fibre Channel error Rate to be injected. At *RST condition, this value is set to 0.0001. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:RATE?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:RATE 0.00065 SOUR:DATA:TEL:FIB:ERR:AUT:RATE? Returns: 0.00065
See Also	FETCh:DATA:TELEcom:FIBer:ERRor:PHYSical:RATE?

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:TYPE	
Description	This command sets the automated Fibre Channel error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCS
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE FCS SOUR:DATA:TEL:FIB:ERR:AUT:TYPE? Returns: FCS
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?

Description	This query returns the manual Fibre Channel error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCS
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE FCS SOUR:DATA:TEL:FIB:ERR:AUT:TYPE? Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?

:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate Fibre Channel error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT ON SOUR:DATA:TEL:FIB:ERR:AUT? Returns: ON
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:AMOut

Description	This command sets the manual Fibre Channel error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:AMOut <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the amount of error to be injected.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:AMO 30 SOUR:DATA:TEL:FIB:ERR:MAN:AMO? Returns: 30
See Also	SOURce:DATA:TELEcom:CPRI:ERRor:MANual:AMOut

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOut?	
Description	This query returns the manual Fibre Channel error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOut?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:AMO 25 SOUR:DATA:TEL:FIB:ERR:MAN:AMO? Returns: 25
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOut?

:SOURce:DATA:TELeom:FIBer:ERRor:MANual:INJect

Description	This command enables/disables the manual Fibre Channel error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:FIBer:ERRor:MANual:INJect
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:INJ
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:LRATe:INJect

:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:TYPE	
Description	This command sets the manual Fibre Channel error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCS
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE FCS SOUR:DATA:TEL:FIB:ERR:MAN:TYPE? Returns: FCS
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?

Description	This query returns the manual Fibre Channel error Defect to be injected. At *RST condition, this value is set to FCS. Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCS
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE FCS SOUR:DATA:TEL:FIB:ERR:MAN:TYPE? Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated	
Description	This command enables/disables the Rate/Max Rate RS-FEC error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT ON SOUR:DATA:TEL:FIB:ERR:RSF:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated

**:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CON
Tinuuous**

Description	This command selects the automated RE-FEC error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONtinuous <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON: Enabled OFF: Disabled
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT ON SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:FIB:ERRor:AUTomated:CONtinuous

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CON Tinuuous?	
Description	This query returns the automated RS-FEC error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuuous?
Response Syntax	<GET>
Response(s)	GET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: ON for Max Rate and OFF for Rate. 1, Continuous RS-FEC error is enabled. 0, Continuous RS-FEC error is disabled.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT ON SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuuous?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE

Description	This command sets the automated RS-FEC error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. Choices are 1.0E-09 to 1.0E-02. MAXimum, sets error rate to maximum. MINimum, sets error rate to minimum.
Response Syntax	<GET>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FCCW SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE 1.0E-09 SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE?	
Description	This query returns the automated RS-FEC error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE?[<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FCCW SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE 1.0E-09 SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE

Description	This command sets the automated RS-FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FUCW: FEC-UNCOR-CW FCCW: FEC-COR-CW FSERR: FEC-SYMB
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FUCW SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?	
Description	This query returns the manual RS-FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FUCW: FEC-UNCOR-CW FCCW: FEC-COR-CW FSERR: FEC-SYMB
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FUCW SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE?

:SOURce:DATA:TELecom:FIber:ERRor:RSFec:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate RS-FEC error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIber:ERRor:RSFec:AUTomated?
Response Syntax	<Get>
Response(s)	Get: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1, automated RS-FEC is enabled. 0, automated RS-FEC is disabled.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT ON SOUR:DATA:TEL:FIB:ERR:RSF:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:FIber:ERRor:AUTomated?

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:AMOUNT

Description	This command sets the manual RS-FEC error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 to 50. MAXimum: The maximum value. MINimum: The minimum value. DEFault: The default value.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FCCW SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO 15 SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO? Return 15
See Also	SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOut?

Description	This query returns the manual RS-FEC error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOut?[<wsp> <Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of Forward Error Correction (FEC) error.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FCCW SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO 15 SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOut SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOut?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:INJect	
Description	This command enables/disables the manual RS-FEC error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:INJ
See Also	SOURce:DATA:TELecom:FIBer:ERRor:MANual:INJect

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE

Description	This command sets the manual RS-FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FUCW: FEC-UNCOR-CW FCCW: FEC-COR-CW FSERR: FEC-SYMB
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FUCW SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE

:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE?	
Description	This query returns the manual RS-FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:MANual:TYPE?
Response Syntax	<GET>
Response(s)	GET: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FUCW: FEC-UNCOR-CW FCCW: FEC-COR-CW FSERR: FEC-SYMB
Example(s)	SOUR:DATA:TEL:FIB:RSF:ERR:MAN:TYPE FUCW SOUR:DATA:TEL:FIB:RSF:ERR:MAN:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELEcom:FIBer:ERRor:RSFec:AUTomated:TYPE?

:SOURce:DATA:TELeom:FOTN:FEC:ALANes

Description	This command enables/disables the selection of all lanes for FEC alarms/errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > All Lanes
Syntax	:SOURce:DATA:TELeom:FOTN:FEC:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<GET>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ALAN ON
See Also	SOURce:DATA:TELeom:FOTN:FEC:LANE

:SOURce:DATA:TELecom:FOTN:FEC:ALANes?	
Description	This query returns the enable/disable selection status of all lanes for FEC alarms/errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ALAN?
See Also	SOURce:DATA:TELecom:FOTN:FEC:LANE?

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMOUNT

Description	This command sets the manual FEC error Amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AMO 1
See Also	SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOUnt?	
Description	This query returns the manual FEC error Amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOUnt?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FEC error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error generation. OFF: Disables error generation.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOUNT

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:CONTInuous	
Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:CONTInuous <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTInuous?

Description	This query returns the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE	
Description	This command sets the automated FEC error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMOUNT

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE?

Description	This query returns the automated FEC error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE?
See Also	SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AMOUnt

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:TYPE	
Description	This command selects the automated FEC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to FCSYmb. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCSYmb: FEC correctable symbol error FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:TYPE FCSY
See Also	SOURce:DATA:TELEcom:FOTN:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE?

Description	This query returns the automated FEC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCSymb: FEC correctable symbol error FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate FEC error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:INJect

Description	This command triggers the manual FEC error injection for FlexO BERT. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:INJ
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE	
Description	This command selects the manual FEC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to FCSymb error. Navigation Path: Results > Alarms/Errors > Injection >FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCSymb: FEC correctable symbol error FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE FCSY
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE

:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:MANual:TYPE?

Description	This query returns the manual FEC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to FCSYmb error. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:FOTN:FEC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCSYmb: FEC correctable symbol error FCCW: FEC correctable code word error FUCW: FEC uncorrectable code word error

:SOURce:DATA:TELecom:FOTN:FEC:LANE	
Description	This command enables/disables the selection of a lane for FEC alarms/errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the OTL per lane status. ON: Enables the lane. OFF: Disables the lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:LANE 1, ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:ALANes

:SOURce:DATA:TELeom:FOTN:FEC:LANE?

Description	This query returns the enable/disable selection status of a lane for FEC alarms/errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > Lane
Syntax	:SOURce:DATA:TELeom:FOTN:FEC:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the selection status of a lane. 1: The lane is enabled. 0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:LANE? 1
See Also	SOURce:DATA:TELeom:FOTN:FEC:ALANes?

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm	
Description	This command enables/disables the continuous FlexO alarm injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > FlexO > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:;ÄäALARm:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE

Description	This command selects the continuous FlexO alarm to be injected for FlexO BERT. At *RST condition, this value is set to LOM. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: GIDM: GroupIDMismatch IIDM: InstanceIDMismatch LOM: LossOfMultiframe MAPM: MAPMismatch OOM: OutOfMultiframe RPF: RemotePhyFault
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR:TYPE GIDM
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ALARm

:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm:TYPE?	
Description	This command selects the continuous FlexO alarm Defect to be injected for FlexO BERT. At *RST condition, this value is set to LOM. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:FOTN:FLXO:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Selects the alarm to be injected: GIDM: GroupIDMismatch IIDM: InstanceIDMismatch LOM: LossOfMultiframe MAPM: MAPMismatch OOM: OutOfMultiframe RPF: RemotePhyFault
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR:TYPE LOM
See Also	SOURce:DATA:TELEcom:FOTN:FLXO:ALARm?

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm?

Description	This query return the enable/disable status of the continuous FlexO alarm injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > FlexO > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate FlexO error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error injection. ON: Enables error generation. OFF: Disables error generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FLXO:ERR:AUT ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE

**:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CON
Tinuuous**

Description	This command sets the automated FlexO error Mode: ON for Max Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CON Tinuous?	
Description	This query returns the automated FlexO error Mode: ON for MAX Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE

Description	This command sets the automated FlexO error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependant. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?

Description	This query returns the automated FlexO error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE

Description This command selects the automated FlexO error Defect to be injected for FlexO BERT.
At *RST condition, this value is set to MFAS.
Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Defect

Syntax :SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE <wsp><Error>

Parameter(s) **Error:**
The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
Selects the error to be injected:
MFAS: MFAS
OHCRC: OH CRC

Response Syntax <Rate>

Example(s) SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:TYPE MFAS

See Also SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous
SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE
SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?	
Description	This query returns the automated FlexO error Defect to be injected for FlexO BERT. At *RST condition, this value is set to MFAS. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: MFAS: MFAS OHCRC: OH CRC
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:AUT:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexO error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTInuous? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE? SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOUNT	
Description	This command sets the manual FlexO error amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:AMO 5
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOut?

Description	This query returns the manual FlexO error amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOut?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of errors to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect	
Description	This command triggers the manual FlexO error injection for FlexO BERT. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:INJ
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOUNT SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

Description	This command selects the manual FlexO error Defect to be injected for FlexO BERT. At *RST condition, this value is set to MFAS error. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: MFAS : MFAS OHCRC: OH CRC
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FLXO:MAN:TYPE MFAS
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOUnt

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?	
Description	This query returns the mantal FlexO error Defect to be injected for FlexO BERT. At *RST condition, this value is set to MFAS. Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: MFAS OH CRC
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOUnt?

:SOURce:DATA:TELecom:FOTN:FLXO:INSTance

Description	This command enables/disables the selection of an instance for alarms/errors injection purposes for FlexO BERT. Navigation Path: Results > Alarms/Errors > Inject > Layer (FlexO) > Instance
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:INSTance <wsp><Instance>, <Set>
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects an instance number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the Instance. ON: Enables the instance. OFF: Disables the instance.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:INST 1,ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE

:SOURce:DATA:TELecom:FOTN:FLXO:INSTance?	
Description	This command enables/disables the selection of an instance for alarms/errors injection purposes for FlexO BERT. Navigation Path: Results > Alarms/Errors > Inject > Layer (FlexO) > Instance
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:INSTance? <wsp><Instance>
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects an instance number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enables/disables status of an Instance.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:INST 1,ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE

:SOURce:DATA:TELecom:FOTN:FOIC:ALANes

Description	This command enables/disables the selection of all lanes for alarms/errors FOIC injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ALAN ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:;Ä~LANE

:SOURce:DATA:TELecom:FOTN:FOIC:ALANes?	
Description	This query returns the enables/disable selection status of all lanes for alarms/errors FOIC injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ALAN?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:;~LANE

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AMOUNT

Description	This command sets the manual FOIC error amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AMO 1
See Also	SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOut?	
Description	This query returns the manual FOIC erreor amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optionnal. If no token is specified, the current amount is returned, MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<AMount>
Response(s)	AMount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FOIC error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error injection. ON: Enables error generation. OFF: Disables error generation.
Response Syntax	<AMount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FOIC:ERR:AUT ON
See Also	SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AMount

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous	
Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<AMount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated

**:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONT
inuuous?**

Description	This query returns the automated FOIC error MOde: ON for Max Rate and OFF for Rate for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:RATE	
Description	This command sets the automated FOIC error Rate to be injected. At *RST condition, this value is set to device-dependant. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:FOTN:FOIC:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Blggest supported value. MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TEL:FOTN:FEC:ERRor:AMount

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE?

Description	This query returns the automated FOIC error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOUnt

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE	
Description	This command selects the automated FOIC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to INVMARKER Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: INVMARKER: Inv. Marker
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:TYPE INVMARKER
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE?

Description This query returns the automated FOIC error Defect to be injected for FlexO BERT.
At *RST condition, this value is set to INVMARKER.
Navigation Path: Results> Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Defect

Syntax :SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE?

Response Syntax <Error>

Response(s) **Error:**
The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
Returns the error to be injected:
INVMARKER: Inv. Marker

Example(s) SOUR:DATA:TEL:FOTN:FOIC:AUT:TYPE?

See Also SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate FOIC error injection for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:INJect

Description	This command triggers the manual FOIC error injection for FlexO BERT. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:INJ

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE	
Description	This command selects the manual FOIC error Defect to be injected. At *RST condition, this value is set to INVMARKER error. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: INVMARKER: Inv. Marker
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:MAN:TYPE INVMARKER
See Also	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?

Description	This query returns the mantal FOIC error Defect to be injected for FlexO BERT. At *RST condition, this value is set to INVMARKER. Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: INVMARKER: Inv. Marker
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:MAN:TYPE?
See Also	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE

:SOURce:DATA:TELeom:FOTN:FOIC:LANE	
Description	This command enables/disables the selection of a lane for FOIC alarms/errors inejction purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > Lane
Syntax	:SOURce:DATA:TELeom:FOTN:FOIC:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the FOIC per lane status. ON: Enables the lane. OFF: Disables the lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE 1,ON
See Also	SOURce:DATA:TELeom:OTN:LANE

:SOURce:DATA:TELeom:FOTN:FOIC:LANE:SKEW:THReshold

Description	The command sets the FOIC excessive lane skew alarm threshold. At *RST condition, this value is set to 180 ns. Navigation Path: Results > Alarm/Errors > FOICx.y > Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELeom:FOTN:FOIC:LANE:SKEW:THReshold <wsp><SkewAlarmThreshold>
Parameter(s)	SkewAlarmThreshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of the FOIC excessive lane skew alarm threshold in nanosecond. DEFAult: To set the default FOIC excessive lane skew alarm threshold MINimum: To set the minimum FOIC excessive lane skew alarm threshold MAXimum: To set the maximum FOIC excessive lane skew alarm threshold
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR 100 SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR? Returns: 100 SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR DEF SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR? Returns: 180
See Also	SOURce:DATA:TELeom:FOTN:FOIC:LANE:SKEW:THReshold?

:SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold?	
Description	This query gets the FOIC excessive lane skew alarm threshold configured value, At *RST condition, this value is set to 180 ns. Navigation Path: Results > Alarm/Errors > FOICx.y > Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold?[<wsp><Limit>]
Parameter(s)	Limit: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. When not specified, returns the configured FOIC excessive lane skew alarm threshold value in nanosecond. DEfault: Not supported on the query. MINimum: Returns the minimum value that can be configured. MAXimum: Returns the maximum value that can be configured.
Response Syntax	<ThresholdValue>
Response(s)	ThresholdValue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the configured FOIC excessive lane skew alarm threshold value or the minimum/maximum value when the corresponding parameter is used.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR 100 SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR? Returns: 100
See Also	SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold SOURce:DATA:TELEcom:FOTN:FOIC:LANE:SKEW:THReshold:RESet

:SOURce:DATA:TELecom:FOTN:FOIC:LANE?

Description	This query returns the enable/disable seletion status of a lane for FOIC alarms/errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the selection status of a lane. 1: The lane is enabled. 0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LAN? 1
See Also	SOUR:DATA:TEL:OTN:OTL:LANE?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel	
Description	This command enables/disables the periodic GFP (Payload) alarm injection. At *RST condition, this value is OFF. Navigation Path:Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel <wsp><SET>
Parameter(s)	SET: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the periodic alarm Injection. ON: Enables the alarm injection. OFF: Disables the alarm injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN ON SOUR:DATA:TEL:GFP:ALAR:CHAN? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?

:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:PERiod

Description	This command selects the periodic GFP (Payload) alarm Period for injection. At *RST condition, this value is set to 100 ms. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Period
Syntax	:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:PERiod <wsp><Period>
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the period. Choices are 10 to 1200 ms. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER 100 SOUR:DATA:TEL:GFP:ALAR:CHAN:PER? Returns: 100
See Also	SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:TYPE?

:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:PERiod?	
Description	This query returns the periodic GFP (Payload) alarm Period for injection. At *RST condition, this value is set to 100 ms. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Period
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:PERiod?[<wsp><Period>]
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the period used for injection. This parameter is optional. If no token is specified, the current injection period is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns alarm period associated with client management frames.
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER 100 SOUR:DATA:TEL:GFP:ALAR:CHAN:PER? Returns: 100
See Also	SOURce:DATA:TELeom:GFP:ALARm:CHANnel:TYPE

:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:TYPE

Description	This command selects the periodic GFP (Payload) alarm Defect to be injected. At *RST condition, this value is set to LOCS. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Defect
Syntax	:SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:TYPE <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: DCI: GFP-DCI FDI: GFP-FDI LOCCS: GFP-LOCCS LOCS: GFP-LOCS RDI: GFP-RDI UDCMF: GFP-UserDefined CMF
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE LOCS SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE? Returns: LOCS
See Also	SOURce:DATA:TELEcom:GFP:ALARm:CHANnel:PERiod?

:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:TYPE?	
Description	This query returns the periodic GFP (Payload) alarm Defect to be injected. At *RST condition, this value is set to LOCS. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Defect
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: DCI: GFP-DCI FDI: GFP-FDI LOCCS: GFP-LOCCS LOCS: GFP-LOCS RDI: GFP-RDI UDCMF: GFP-UserDefined CMF
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE LOCS SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE? Returns: LOCS
See Also	SOURce:DATA:TELeom:GFP:ALARm:CHANnel:PERiod

:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:UPI

Description	This command selects the periodic GFP (Payload) alarm User-Defined UPI for injection. At *RST condition, this value is set to 0000 0000. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > User-Defined UPI
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:CHANnel:UPI <wsp><UPI>
Parameter(s)	UPI: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the User-Defined UPI. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI 0 SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI? Returns: 0
See Also	SOURce:DATA:TELeom:GFP:ALARm:CHANnel?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?

Description	This query returns the periodic GFP (Payload) alarm User-Defined UPI for injection. At *RST condition, this value is set to 0000 0000. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > User-Defined UPI
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?[<wsp><UPI>]
Parameter(s)	UPI: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<VALUE>
Response(s)	VALUE: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the client management frames UPI value when User-defined CMF is selected
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI 0 SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI? Returns: 0
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel?

Description	This query returns the enable/disable status of the periodic GFP (Payload) alarm injection. At *RST condition, this value is OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel?
Response Syntax	<VALUE>
Response(s)	VALUE: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Generation enabled 0: Generation disabled
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN ON SOUR:DATA:TEL:GFP:ALAR:CHAN? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI

:SOURce:DATA:TELecom:GFP:ALARm:FRAMe	
Description	This command enables/disables the continuous GFP (Core Header) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:FRAMe <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<VALUE>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM ON SOUR:DATA:TEL:GFP:ALAR:FRAM? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE?

:SOURce:DATA:TELeom:GFP:ALARm:FRAMe:TYPE

Description	This command selects the continuous GFP (Core Header) alarm Defect to be injected. At *RST condition, this value is set to GFP-LFD. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:FRAMe:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LFD: GFP-LFD
Response Syntax	<VALUE>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE LFD SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE? Returns: LFD
See Also	SOURce:DATA:TELeom:GFP:ALARm:FRAMe?

:SOURce:DATA:TELeom:GFP:ALARm:FRAMe:TYPE?	
Description	This query returns the continuous GFP (Core Header) alarm Defect to be injected. At *RST condition, this value is set to GFP-LFD. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:FRAMe:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LFD: GFP-LFD
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE LFD SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE? Returns: LFD
See Also	SOURce:DATA:TELeom:GFP:ALARm:FRAMe

:SOURce:DATA:TELeom:GFP:ALARm:FRAMe?

Description	This query returns the enable/disable status of the continuous GFP (Core Header) alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELeom:GFP:ALARm:FRAMe?
Response Syntax	<SET>
Response(s)	SET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM ON SOUR:DATA:TEL:GFP:ALAR:FRAM? Returns: 1
See Also	SOURce:DATA:TELeom:GFP:ALARm:FRAMe:TYPE

:SOURce:DATA:TELecom:GFP:CONFig:CMF	
Description	This command enables/disables the CMF. At *RST condition, this value is ON. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > Alarms/Errors > GFP-F > CMF Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > Alarms/Errors > GFP-T > CMF
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:CMF <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:CONF:CMF ON SOUR:DATA:TEL:GFP:CONF:CMF? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELEcom:GFP:CONFig:CMF?

Description	This query returns the status of CMF. At *RST condition, this value is OFF. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > Alarms/Errors > GFP-F > CMF Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > Alarms/Errors > GFP-T > CMF
Syntax	:SOURce:DATA:TELEcom:GFP:CONFig:CMF?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the CMF. 1, returns the CMF as ON. 0, returns the CMF as OFF.
Example(s)	SOUR:DATA:TEL:GFP:CONF:CMF ON SOUR:DATA:TEL:GFP:CONF:CMF? Returns: 1
See Also	SOURce:DATA:TELEcom:GFP:CHANnel:CONFig:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOut	
Description	This command sets the manual GFP (Payload) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOut <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 to 50. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO 50 SOUR:DATA:TEL:GFP:ERR:CHAN:AMO? Returns: 50
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?

:SOURce:DATA:TELeom:GFP:ERROr:CHANnel:AMOUnt?

Description	This query returns the manual GFP (Payload) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELeom:GFP:ERROr:CHANnel:AMOUnt?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<AMOUNT>
Response(s)	AMOUNT: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns amount for the GFP manual error to be geneeated for Channel.
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO 50 SOUR:DATA:TEL:GFP:ERR:CHAN:AMO? Returns: 50
See Also	SOURce:DATA:TELeom:GFP:ERROr:CHANnel:MANual:TYPE

:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated	
Description	This command enables/disables the Rate/Max Rate GFP (Payload) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject This query returns the enable/disable status of the Rate/Max Rate GFP error injection. Returns the enable/disable injection status.
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables the error injection. OFF: Disables the error injection.
Response Syntax	<AMOUNT>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT ON SOUR:DATA:TEL:GFP:ERR:CHAN:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTInuous

Description	This command sets the automated GFP (Payload) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<AMOUNT>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT ON SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?

:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTInuous?	
Description	This query returns the automated GFP (Payload) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTInuous?
Response Syntax	<SET>
Response(s)	SET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT ON SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated

:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:RATE

Description	This command sets the automated GFP (Payload) error Rate to be injected. At *RST condition, this value is set to 1.0E-01. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE 1.2E-09 SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE? Returns: 1.2E-09
See Also	SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:TYPE?

:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:RA TE?	
Description	This query returns the automated GFP (Payload) error Rate to be injected. At *RST condition, this value is set to 1.0E-01. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the rate of error to be injected. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<RATE>
Response(s)	RATE: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the injection rate for the selected GFP automated error for Channel.
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE 1.2E-09 SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE? Returns: 1.2E-09
See Also	SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE

Description	This command selects the automated GFP (Payload) error Defect to be injected. At *RST condition, this value is set to tHEC-CORRectable. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CODERR: GFP-10B_ERR ECORRect: GFP-eHEC-CORR EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS SUCORRRPRE: GFP-SB-CORR (Pre) SUCORRPOST: GFP-SB-CORR (Post) SUUNCORR: GFP-SB-UNCORR TCORRect: GFP-tHEC-CORR TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<RATE>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE TCORR SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE? Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?	
Description	This query returns the automated GFP (Payload) error Defect to be injected. At *RST condition, this value is set to tHEC-CORRectable. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CODERR: GFP-10B_ERR ECORRect: GFP-eHEC-CORR EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS SUCORRRPRE: GFP-SB-CORR (Pre) SUCORRPOST: GFP-SB-CORR (Post) SUUNCORR: GFP-SB-UNCORR TCORRect: GFP-tHEC-CORR TUCORRect: GFP-tHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE TCORR SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE? Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE

:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate GFP (Payload) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated?
Response Syntax	<SET>
Response(s)	SET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT ON SOUR:DATA:TEL:GFP:ERR:CHAN:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTinuous

:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:INJect	
Description	This command enables/disables the manual GFP (Payload) error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:INJect
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:INJ
See Also	SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AUTomated?

:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:MANual:TYPE

Description	This command selects the manual GFP (Payload) error Defect to be injected. At *RST condition, this value is set to tHEC-CORRectable. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:CHANnel:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CODERR: GFP-10B_ERR ECORRect: GFP-eHEC-CORR EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS SUCORRPRE: GFP-SB-CORR (Pre) SUCORRPOST: GFP-SB-CORR (Post) SUUNCORR: GFP-SB-UNCORR TCORRect: GFP-tHEC-CORR TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE TCORR SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE? Returns: TCORR
See Also	SOURce:DATA:TELeom:GFP:ERRor:CHANnel:AMOUnt?

:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:MANual:TYPE?	
Description	This query returns the manual GFP (Payload) error Defect to be injected. At *RST condition, this value is set to tHEC-CORRectable. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:MANual:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CODERR: GFP-10B_ERR ECORRect: GFP-eHEC-CORR EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS SUCORRPRE: GFP-SB-CORR (Pre) SUCORRPOST: GFP-SB-CORR (Post) SUUNCORR: GFP-SB-UNCORR TCORRect: GFP-tHEC-CORR TUCORRect: GFP-tHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE TCORR SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE? Returns: TCORR
See Also	SOURce:DATA:TELEcom:GFP:ERRor:CHANnel:AMOUnt

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOUNT

Description	This command sets the manual GFP (Core Header) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 to 50. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO 40 SOUR:DATA:TEL:GFP:ERR:FRAM:AMO? Returns: 40
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AMOut?	
Description	This query returns the manual GFP (Core Header) error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AMOut?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of GFP error for manual injection for Frame.
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO 40 SOUR:DATA:TEL:GFP:ERR:FRAM:AMO? Returns: 40
See Also	SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:MANual:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated

Description	This command enables/disables the Rate/Max Rate GFP (Core Header) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: disables error injection.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT ON SOUR:DATA:TEL:GFP:ERR:FRAM:AUT? Returns: 1
See Also	SOURce:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTInuous?

**:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CON
Tinuuous**

Description	This command sets the automated GFP (Core Header) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode This query returns the automated GFP error Mode: ON for Max Rate and OFF for Rate. Returns the automated error Mode: 1: Max Rate 0: Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONtinuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT ON SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:CONTinuous?

Description	This query returns the automated GFP (Core Header) error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated:CONTinuous?
Response Syntax	<SET>
Response(s)	SET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT ON SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated

:SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:RATE	
Description	This command sets the automated GFP (Core Header) error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE 1.2E-09 SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE? Returns: 1.2E-09
See Also	SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:TYPE?

:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:AUTomated:RATE ?

Description	This query returns the automated GFP (Core Header) error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:AUTomated:RATE? [<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the injection rate for the selected GFP error for Frame.
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE 1.2E-09 SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE? Returns: 1.2E-09
See Also	SOURce:DATA:TELeom:GFP:ERRor:FRAMe:AUTomated:TYPE

:SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:TYPE	
Description	This command selects the automated GFP (Core Header) error Defect to be injected. At *RST condition, this value is set to GFP-cHEC-CORR error. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CORRectionable: GFP-cHEC-CORR UCORRectionable: GFP-cHEC-UNCORR
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE CORR SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE? Returns: CORR
See Also	SOURce:DATA:TELEcom:GFP:ERRor:FRAME:AUTomated:RATE?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?

Description	This query returns the automated GFP (Core Header) error Defect to be injected. At *RST condition, this value is set to GFP-cHEC-CORR error. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE UCOR SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE? Returns: UCOR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE

:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate GFP (Core Header) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:GFP:ERRor:FRAMe:AUTomated?
Response Syntax	<SET>
Response(s)	SET: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT ON SOUR:DATA:TEL:GFP:ERR:FRAM:AUT? Returns: 1
See Also	SOURce:TELEcom:GFP:ERRor:CHANnel:AUTomated:CONTinuous

:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:INJect

Description	This command enables/disables the manual GFP (Core Header) error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Inject
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:INJect
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:INJ
See Also	SOURce:DATA:TELeom:GFP:ERRor:FRAMe:AUTomated?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE	
Description	This command selects the manual GFP (Core Header) error Defect to be injected. At *RST condition, this value is set to GFP-cHEC-CORR Frame error. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE UCOR SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE? Returns: UCOR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOUnt?

:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:MANual:TYPE?

Description	This query returns the manual GFP (Core Header) error Defect to be injected. At *RST condition, this value is set to GFP-cHEC-CORR error. Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:GFP:ERRor:FRAMe:MANual:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CORRectable: GFP-cHEC-CORR UCORRectable: GFP-cHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE CORR SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE? Returns: CORR
See Also	SOURce:DATA:TELeom:GFP:ERRor:FRAMe:AMOUnt

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT	
Description	This command enables/disables the continuous Interface alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:OPTical:ALARm:PORT <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enabled OFF: Disabled
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT ON SOUR:DATA:TEL:OPT:ALAR:PORT? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical? SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes

Description	This command enables/disables the selection of all lanes for alarms injection purposes. This command is not associated with any *RST condition. Navigation Path: Results > Alarms/Errors > Inject > Layer (Interface) > All lanes Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (Interface) > All lanes
Syntax	:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN ON SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTL:LANE SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?	
Description	This query returns the enable/disable selection status of all lanes for alarm injection purposes. This command is not associated with any *RST condition. Navigation Path: Results > Alarms/Errors > Inject > Layer (Interface) > All lanes Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (Interface) > All lanes
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN ON SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE ? SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

Description	This command enables/disables the selection of a lane for Interface alarm injection purposes. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Inject > Interface > Lane
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE <wsp> <Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of a lane. ON: Enables the lane. OFF: Disables the lane.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE 1, ON SOUR:DATA:TEL:OPT:ALAR:PORT:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE?	
Description	This query returns the enable/disable selection status of a lane for Interface alarm injection purposes. At *RST condition, this value is device-dependent. Navigation Path: Results > Alarms/Errors > Inject > Interface > Lane
Syntax	:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of a lane. 1: The lane is enabled. 0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE 1, ON SOUR:DATA:TEL:OPT:ALAR:PORT:LANE? 1 Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:OTL:ALANes? SOURce:DATA:TELEcom:OPTical:ALARm:PORT:ALANes

:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:TYPE?

Description	This query returns the continuous Interface (Optical) alarm Defect to be injected. At *RST condition, this value is set to LOS. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:OPTical:ALARm:PORT:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOS
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE? Returns: LOS
See Also	SOURce:DATA:TELEcom:ELECtrical:ALARm:PORT?

:SOURce:DATA:TELecom:OPTical:ALARm:PORT?	
Description	This query returns the enable/disable status of the continuous Interface alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT ON SOUR:DATA:TEL:OPT:ALAR:PORT? Returns: 1
See Also	SOURce:DATA:TELecom:ETHeRnet:ALARm:PHYsical SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]

Description	This command enables/disables the continuous ODU alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Inject NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1 ON SOUR:DATA:TEL:OTN:ALAR:ODU1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]

:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:ACHannel	
Description	This query returns if LO ODU alarm injection is done on All Channels for Multi-Channel OTN. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU > Alarm > Continuous > Channel - All NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUc.
Syntax	:SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:ACHannel <wsp><AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel?

Description	This query returns if LO ODU alarm injection is done on All Channels for Multi-Channel OTN. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel - All NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the LO ODU alarm injection is done on ALL channels, in the Multi-Channel OTN test application. 1, injection is done on all channels. 0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA ON SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA? Returns: 1
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel

Description	This command selects the channel used for LO ODU alarm injection, when All Channel is not selected, for Multi-Channel OTN. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU > Alarm > Continuous > Channel NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel <wsp><Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel for alarm injection.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for alarm injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for alarm injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN 5 SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN? Returns: 5
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]	
Description	This command enables/disables the continuous ODU1e/2e/3e1/3e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Inject NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n] <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON SOUR:DATA:TEL:OTN:ALAR:ODU3:E1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]

Description	This command enables/disables the continuous ODU1e/2e/3e1/3e2 TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1 ON SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE	
Description	This command selects the continuous ODU1e/2e/3e1/3e2 TCM alarm Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE? Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?

Description	This query returns the continuous ODU1e/2e/3e1/3e2 TCM alarm Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE? Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?	
Description	This query returns the enable/disable status of the continuous ODU1e/2e/3e1/3e2 TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE	
Description	This command selects the continuous ODU1e/2e/3e1/3e2 alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Defect NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E:[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?	
Description	This query returns the continuous ODU1e/2e/3e1/3e2 alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOFLom: LOFLOM OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LOCK OOCI: OCI OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

Description	This query returns the enable/disable status of the continuous ODU1e/2e/3e1/3e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON SOUR:DATA:TEL:OTN:ALAR:ODU3:E1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F	
Description	This command enables/disables the Optical Channel Data Unit (ODU) alarm generation for non-standard rates OTU(1/2)f At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (ODU(1/2)f) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:F ON SOUR:DATA:TEL:OTN:ALAR:ODU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]

Description	This command enables/disables the continuous ODU1f/2f TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1 ON SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE	
Description	This command selects the continuous ODU1f/2f TCM alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE? Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?

**:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:
TYPE?**

Description	This query returns the continuous ODU1f/2f TCM alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE? Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?	
Description	This query returns the enable/disable status of the continuous ODU1f/2f TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1 ON SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE

Description	This command selects the continuous ODU1f/2f TCM alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: OAIS: AIS OBDi: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LCK OOCI: OCI OTIM: TIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E:[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE?	
Description	This query returns the continuous ODU1f/2f TCM alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: OAIS: AIS OBDI: BDI OBSD: BSD OBSF: BSF OFSD: FSD OFSF: FSF OLCK: LCK OOCI: OCI OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F?

Description	This query returns the status of the Optical Data Unit (ODU) alarm generation for non-standard rates OTU(1/2)f At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (ODU(1/2)f) > Type (Alarm) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Optical Data Unit (ODU) alarm generation. 1, status of Optical Data Unit (ODU) alarm is enabled 0, status of Optical Data Unit (ODU) alarm is disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:F ON SOUR:DATA:TEL:OTN:ALAR:ODU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC	
Description	This command enables/disables the selection of an OTUC for ODU_{Cn} alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUC_n) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the ODU_{Cn} per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for ODUcN alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?	
Description	This query returns the enable/disable selection status of all OTUC for ODU_{Cn} alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(ODUC_n) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for ODU_{Cn} alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUC_n) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for ODUC alarm injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]	
Description	This command enables/disables the continuous ODU TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1 ON SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE

Description	This command selects the continuous ODU TCM alarm Defect to be injected. At *RST condition, this value is set to TLTC. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?	
Description	This query returns the continuous ODU TCM alarm Defect to be injected. At *RST condition, this value is set to TLTC. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE TLTC SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE? Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

Description	This query returns the enable/disable status of the continuous ODU TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE	
Description	This command selects the continuous ODU alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: OAIS: ODU-AIS OBDi: ODU-BDI OLCK: ODU-LCK OOCI: ODU-OCI OFSF: ODU-FSF OBSF: ODU-BSF OFSD: ODU-FSD OBSD: ODU-BSD LOFLom, ODU-LOFLOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

Description	This query returns the continuous ODU alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > ODU > Alarm > Continuous > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: OAIS: ODU-AIS OBDi: ODU-BDI OLCK: ODU-LCK OOCI: ODU-OCI OFSF: ODU-FSF OBSF: ODU-BSF OFSD: ODU-FSD OBSD: ODU-BSD LOFLom, ODU-LOFLOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE? Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?	
Description	This query returns the enable/disable status of the continuous ODU alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Inject NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF SOUR:DATA:TEL:OTN:ALAR:ODU1 ON SOUR:DATA:TEL:OTN:ALAR:ODU1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]

Description	This command enables/disables the continuous OPU / OPU3e1/e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Inject NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n] <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1 ON SOUR:DATA:TEL:OTN:ALAR:OPU1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHannel	
Description	This command selects if LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application. At *RST condition, this value is set to OFF. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHannel <wsp> <AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHannel?

Description	This query returns if LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application. At *RST condition, this value is set to OFF. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHannel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application. 1, injection is done on all channels. 0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA ON SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA? Returns: 1
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel	
Description	This command selects the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. 'n', injection is done on channel or clien ID 'n', when AllCHAnnel is 'OFF'.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN 5 SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN? Returns: 5
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E	
Description	This command enables/disables the continuous OPU1e/2e alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:E ON SOUR:DATA:TEL:OTN:ALAR:OPU1:E? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE

Description	This command selects the continuous OPU1e/2e alarm Defect to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE?	
Description	This query returns the continuous OPU1e/2e alarm Defect to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E?

Description	This query returns the enable/disable status of the continuous OPU1e/2e alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:E ON SOUR:DATA:TEL:OTN:ALAR:OPU1:E? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F	
Description	This command enables/disables the continuous OPU1f/2f alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:F ON SOUR:DATA:TEL:OTN:ALAR:OPU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE

Description	This command selects the continuous OPU1f/2f alarm Defect to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE?	
Description	This query returns the continuous OPU1f/2f alarm Defect to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OCSF SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE? Returns: OCSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F?

Description	This query returns the enable/disable status of the continuous OPU1f/2f alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OCSF SOUR:DATA:TEL:OTN:ALAR:OPU1:F ON SOUR:DATA:TEL:OTN:ALAR:OPU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC	
Description	This command enables/disables the selection of an OTUC for OPUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the ODUcN per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OPUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL?	
Description	This query returns the enable/disable selection status of all OTUC for OPUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(OPUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OPUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for OPUC alarm injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE	
Description	This command selects the continuous OPU / OPU3e1/e2 alarm Defect to be injected. At *RST condition, this value is set device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

Description	This query returns the continuous OPU / OPU3e1/e2 alarm Defect to be injected. At *RST condition, this value is set device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: OAIS: AIS OCSF: CSF OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OCSF SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE? Returns: OCSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]?	
Description	This query returns the enable/disable status of the continuous OPU / OPU3e1/e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Inject NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OCSF SOUR:DATA:TEL:OTN:ALAR:OPU1 ON SOUR:DATA:TEL:OTN:ALAR:OPU1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]

Description	This command enables/disables the continuous OTU alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Inject NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n] <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3 ON SOUR:DATA:TEL:OTN:ALAR:OTU3? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n] SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]	
Description	This command enables/disables the continuous OTU1e/2e/3e1/3e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Inject NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n] <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:E1 ON SOUR:DATA:TEL:OTN:ALAR:OTU3:E1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

Description	This command selects the continuous OTU1e/2e/3e1/3e2 alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Defect NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE <wsp> <Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?	
Description	This query returns the continuous OTU1e/2e/3e1/3e2 alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Defect NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

Description	This query returns the enable/disable status of the continuous OTU1e/2e/3e1/3e2 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Inject NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:E1 ON SOUR:DATA:TEL:OTN:ALAR:OTU3:E1? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F	
Description	This command enables/disables the continuous OTU1f/2f alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU1:F ON SOUR:DATA:TEL:OTN:ALAR:OTU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

:SOURce:DATA:TELeom:OTN:ALARm:OTU[1..n]:F:TYPE

Description	This command selects the continuous OTU1f/2f alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:OTN:ALARm:OTU[1..n]:F:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELeom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE?	
Description	This query returns the continuous OTU1f/2f alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F?

Description	This query returns the enable/disable status of the continuous OTU1f/2f alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU1:F ON SOUR:DATA:TEL:OTN:ALAR:OTU1:F? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC	
Description	This command enables/disables the selection of an OTUC for OTUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the OTUCn per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OTUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?	
Description	This query returns the enable/disable selection status of all OTUC for OTUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(OTUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OTUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for OTUC alarm injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC?

:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:TYPE	
Description	This command selects the continuous OTU alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Defect NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELEcom:OTN:ALARm:OTU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF LOFLom LOM OAIS: AIS OBDi: BDI OBlae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

Description	This query returns the continuous OTU alarm Defect to be injected. At *RST condition, this value is set to OAIS. Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Defect NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF LOFLom LOM OAIS: AIS OBDi: BDI OBIae: BIAE OIAE: IAE OOF OOM OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE OAIS SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE? Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?	
Description	This query returns the enable/disable status of the continuous OTU alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Inject NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3 ON SOUR:DATA:TEL:OTN:ALAR:OTU3? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n] SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT

Description	This command sets the manual FEC error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 to 50. MAXimum: The maximum value. MINimum: The minimum value. DEFault: The default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOUNT?

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT?	
Description	This query returns the manual FEC error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AMOUNT?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of Forward Error Correction (FEC) error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOUNT?

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated

Description	This command enables/disables the Rate/Max Rate FEC error injection At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:FEC:AUT ON SOUR:DATA:TEL:OTN:ERR:FEC:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTInuous	
Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTInuous <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTInuous?

Description	This query returns the automated FEC error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE	
Description	This command sets the automated FEC error Rate to be injected. At *RST condition, this value is set to 1.5E-02. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. Choices are 1.0E-07 to 1.5E-02. MAXimum, sets error rate to maximum. MINimum, sets error rate to minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:RATE?

Description	This query returns the automated FEC error Rate to be injected. At *RST condition, this value is set to 1.5E-02. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:TYPE	
Description	This command selects the automated FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:FEC:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE? Returns: FCCW
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE?

Description	This query returns the automated FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSYmb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE? Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate FEC error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:FEC:AUT ON SOUR:DATA:TEL:OTN:ERR:FEC:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:INJect

Description	This command enables/disables the manual FEC error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE	
Description	This command selects the manual FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSymb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE? Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?

Description	This query returns the manual FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSYmb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE? Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHannel	
Description	This command selects if LO ODU error injection is done on All Channels for Multi-Channel OTN. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel - All NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHannel <wsp> <AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHannel?

Description	This query returns if LO ODU error injection is done on All Channels for Multi-Channel OTN. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel - All NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHannel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable All Channngels selection status: 1: Injection is done on all channels. 0: Injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA ON SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA? Returns: 1
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOUNT	
Description	This command sets the manual ODU error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Manual > Amount NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUFlex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOUNT SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOUNT?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOut?

Description	This query returns the manual ODU error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Manual > Amount NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUc, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOut?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOut SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOut?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated	
Description	This command enables/disables the Rate/Max Rate ODU error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Rate/Max Rate > Inject NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection OFF: Disables error injection
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

**:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:C
ONTInuous**

Description	This command sets the automated ODU error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Mode NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous?

**:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:C
ONTInuous?**

Description	This query returns the automated ODU error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Mode NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE

Description	This command sets the automated ODU error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate > Rate NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Sets to maximum rate. MINimum: Sets to minimum rate.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?	
Description	This query returns the automated ODU error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate > Rate NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUFlex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous

Description	This command sets the automated ODU TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:CONT ON
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous?	
Description	This query returns the automated ODU TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:CONT?
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

Description	This command sets the automated ODU TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?	
Description	This query returns the automated ODU TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?[<wsp><Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:RATE?
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

Description	This command selects the manual ODU TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?	
Description	This query returns the manual ODU TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBIP8: BIP-8 TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE

Description	This command selects the automated ODU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBIP8: ODU-BIP-8 OBEI: ODU-BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

Description	This query returns the automated ODU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn. This command selects the automated ODU error Defect to be injected. Selects the error to be injected:
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBIP8: ODU-BIP-8 OBEL: ODU-BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Inject NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel	
Description	This command selects the channel number or client ID used for LO ODU error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Rate/Max Rate > Channel NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel <wsp> <Channel Number or Client ID>
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel number or client ID used for error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for error injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODUUn > Error > Rate/Max Rate > Channel NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN 5 SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN? Returns: 5
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOu nt	
Description	This command sets the manual ODU1e/2e/3e1/3e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT?

**:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOu
nt?**

Description	This query returns the manual ODU1e/2e/3e1/3e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated	
Description	This command enables/disables the Rate/Max Rate ODU1e/2e/3e1/3e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous

Description	This command sets the automated ODU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Mode NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Mode NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE

Description	This command sets the automated ODU1e/2e/3e1/3e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum, sets the injection rate for the selected ODU to maximum. MINimum, sets the injection rate for the selected ODU to minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTInuous

Description	This command sets the automated ODU1e/2e/3e1/3e2 TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Mode NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTInuous?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Mode NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE

Description	This command sets the automated ODU1e/2e/3e1/3e2 TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE?{<wsp> <Value>}
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE

Description	This command selects the automated ODU1e/2e/3e1/3e2 TCM error Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	Returns the error to be injected: :SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE? SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBIP8: BIP-8 TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE? Returns: TBIP9
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE

Description	This command selects the automated ODU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE? SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?	
Description	This query returns the automated ODU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBIP8: BIP-8 OBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate ODU1e/2e/3e1/3e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect	
Description	This command enables/disables the manual ODU1e/2e/3e1/3e2 error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Inject NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE

Description	This command selects the manual ODU1e/2e/3e1/3e2 TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?	
Description	This query returns the manual ODU1e/2e/3e1/3e2 TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBIP8: BIP-8 TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

Description	This command selects the manual ODU1e/2e/3e1/3e2 error Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Defect NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBIP8: BIP-8 OBEI: BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?	
Description	This query returns the manual ODU1e/2e/3e1/3e2 error Defect to be injected. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Defect NOTE: For :E[1..n]., use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBIP8: BIP-8 OBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOUnt

Description	This command sets the manual ODU1e/2e/3e1/3e2 TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOUnt <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Grestest supported amount MINimum: Smallest supported amount
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUnt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMount?	
Description	This query returns the manual ODU1e/2e/3e1/3e2 TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMount? [<wsp> <Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMount

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1e/2e/3e1/3e2 TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1e/2e/3e1/3e2 TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:INJect

Description	This command enables/disables the manual ODU1e/2e/3e1/3e2 TCM error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Inject NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AMOUNT	
Description	This command sets the manual ODU1f/2f error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOUNT?

Description	This query returns the manual ODU1f/2f error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated	
Description	This command enables/disables the Rate/Max Rate ODU1f/2f error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous

Description	This command sets the automated ODU1f/2f error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous?	
Description	This query returns the automated ODU1f/2f error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE

Description	This command sets the automated ODU1f/2f error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE?

Description	This query returns the automated ODU1f/2f error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInuous

Description	This command sets the automated ODU1f/2f TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInuous?

Description	This query returns the automated ODU1f/2f TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE

Description	This command sets the automated ODU1f/2f TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE?	
Description	This query returns the automated ODU1f/2f TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE

Description	This command selects the automated ODU1f/2f TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE? SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE?	
Description	This query returns the automated ODU1f/2f TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBEI: BEI TBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE? Returns: TBIP9
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE

Description	This command selects the automated ODU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE? SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE?	
Description	This query returns the automated ODU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1f/2f error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:INJect	
Description	This command enables/disables the manual ODU1f/2f error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE

Description	This command selects the manual ODU1f/2f TCM error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBEI: BEI TBIP8: BIP-8
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?	
Description	This query returns the manual ODU1f/2f TCM error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBEI: BEI TBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE

Description	This command selects the manual ODU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?	
Description	This query returns the manual ODU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMount

Description	This command sets the manual ODU1f/2f TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMount <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMount?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOUNT?	
Description	This query returns the manual ODU1f/2f TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOUNT?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1f/2f TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate ODU1f/2f TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INject

Description	This command enables/disables the manual ODU1f/2f TCM error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INject
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect	
Description	This command enables/disables the manual ODU error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Inject NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect

:SOURce:DATA:TELeom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

Description	This command selects the manual ODU TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELeom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: TBIP8: BIP-8 TBEI: BEI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE TBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE? Returns: TBIP8
See Also	SOURce:DATA:TELeom:OTN:ERRor:ODU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?	
Description	This query returns the manual ODU TCM error Defect to be injected. At *RST condition, this value is set to TBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: TBIP8: BIP-8 TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE

Description	This command selects the manual ODU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OBIP8: ODU-BIP-8 OBEI: ODU-BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?	
Description	This query returns the manual ODU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Defect NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUcN.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OBIP8: ODU-BIP-8 OBEI: ODU-BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC	
Description	This command enables/disables the selection of an OTUC for ODU_{Cn} errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUC_n) > OTUC NOTE: For ODU[1..n], use ODU200 for ODU_C
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the ODU_{Cn} per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL	
Description	This command enables/disables the selection of all OTUC for ODUcN errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > All OTUC NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for ODU_{Cn} errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(ODUC_n) > All OTUC NOTE: For ODU[1..n], use ODU200 for ODU_C
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC:ALL?
See Also	SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC?	
Description	This query returns the enable/disable selection status of an OTUC for ODU_{Cn} errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUC_n) > OTUC NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC? <wsp><OTU #>
Parameter(s)	OTU #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for ODUC error injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC?

**:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AM
Ount**

Description	This command sets the manual ODU TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 to 50. MAXimum: Gretest supported amount MINimum: Smallest supported amount
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO 1 SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AM Ount?	
Description	This query returns the manual ODU TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated	
Description	This command enables/disables the Rate/Max Rate ODU TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate ODU TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated?

**:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJ
ect**

Description	This command enables/disables the manual ODU TCM error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHannel	
Description	This command selects if LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application. At *RST condition, this value is set to OFF. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHannel <wsp> <AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHannel?

Description	This query returns if LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application. At *RST condition, this value is set to OFF. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHannel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application. 1, injection is done on all channels. 0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA ON SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA? Returns: 1
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:CHAN

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOnt	
Description	This command sets the manual OPU / OPU3e1/e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Amount NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AMOnt <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AMO 15
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMOnt

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOut?

Description	This query returns the manual OPU / OPU3e1/e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Amount NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOut?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated	
Description	This command enables/disables the Rate/Max Rate OPU / OPU3e1/e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Inject NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated

**:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:C
ONTInuous**

Description	This command sets the automated OPU / OPU3e1/e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Mode NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:C ONTInuous?	
Description	This query returns the automated OPU / OPU3e1/e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Mode NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT 1 SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE

Description	This command sets the automated OPU / OPU3e1/e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate > Rate NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?	
Description	This query returns the automated OPU / OPU3e1/e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate > Rate NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE	
Description	This command selects the automated OPU / OPU3e1/e2 error Defect to be injected. At *RST condition, this value is set to OMFI. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OMFI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE OMFI SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE? Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?	
Description	This query returns the automated OPU / OPU3e1/e2 error Defect to be injected. At *RST condition, this value is set to OMFI. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OMFI
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE OMFI SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE? Returns: OMFI
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OPU / OPU3e1/e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Inject NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:CHANnel	
Description	This command selects the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OPU[1..n]:CHANnel <wsp> <Channel Number or Client ID>
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU) NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test. 'n', injection is done on channel or client ID 'n', when AllCHAnnel is not selected .
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN 5 SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN? Returns: 5
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect	
Description	This command enables/disables the manual OPU / OPU3e1/e2 error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Inject NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE	
Description	This command selects the manual OPU / OPU3e1/e2 error Defect to be injected. At *RST condition, this value is set to OMFI. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: OMFI
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE OMFI SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE? Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE?	
Description	This query returns the manual OPU / OPU3e1/e2 error Defect to be injected. At *RST condition, this value is set to OMFI. Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Defect NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: OMFI
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE OMFI SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE? Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for OPUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the ODUCn per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL	
Description	This command enables/disables the selection of all OTUC for OPUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > All OTUC NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL

:SOURce:DATA:TELeom:OTN:ERRor:OPU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for OPUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(OPUCn) > All OTUC NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELeom:OTN:ERRor:OPU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC:ALL?
See Also	SOURce:DATA:TELeom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC?	
Description	This query returns the enable/disable selection status of an OTUC for OPUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for ODU error injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOut

Description	This command sets the manual OTU error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Amount NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO MAX SOUR:DATA:TEL:OTN:ERR:OTU3:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOut SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOut?

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMOUNT?	
Description	This query returns the manual OTU error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Amount NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMOUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO MAX SOUR:DATA:TEL:OTN:ERR:OTU3:AMO?
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AMOUNT SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AMOUNT?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate OTU error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Inject NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU3:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:C ONTInuous	
Description	This command sets the automated OTU error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Mode NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous?

**:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:C
ONTInuous?**

Description This query returns the automated OTU error Mode: ON for Max Rate and OFF for Rate.
At *RST condition, this value is set to OFF.
Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Mode
NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.

Syntax :SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTInuous?

Response Syntax <Mode>

Response(s) **Mode:**
The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
Returns the automated error Mode:
1: Max Rate
0: Rate

Example(s) SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT ON
SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT?
Returns: 1

See Also SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous
SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE	
Description	This command sets the automated OTU error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE MIN SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

Description	This query returns the automated OTU error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE MIN SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE	
Description	This command selects the automated OTU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS MFAS OBEI: OTU - BEI OBIP8: OTU - BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

Description	This query returns the automated OTU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS MFAS OBEI: OTU - BEI OBIP8: OTU - BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate OTU error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU3:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOu nt	
Description	This command sets the manual OTU1e/2e/3e1/3e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOu nt?	
Description	This query returns the manual OTU1e/2e/3e1/3e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Amount NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate OTU1e/2e/3e1/3e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous	
Description	This command sets the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Mode NOTE: For :E[1..n]., use :E: for OTU1e/2e. This query returns the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate. Returns the automated error Mode: 1: Max Rate 0: Rate
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Mode NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE	
Description	This command sets the automated OTU1e/2e/3e1/3e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. Choices are 1.0E-09 through 6.5E-05. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate > Rate NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE

Description	This command selects the automated OTU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE? SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTU1e/2e/3e1/3e2 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

Description	This command enables/disables the manual OTU1e/2e/3e1/3e2 error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Inject NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUnt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE	
Description	This command selects the manual OTU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Defect NOTE: For :E[1..n]., use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?	
Description	This query returns the manual OTU1e/2e/3e1/3e2 error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Defect NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOUNT	
Description	This command sets the manual ODU1f/2f TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOUNT?

Description	This query returns the manual OTU1f/2f error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOUNT?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOUNT

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated	
Description	This command enables/disables the Rate/Max Rate OTU1f/2f error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous

Description	This command sets the automated OTU1f/2f error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous?	
Description	This query returns the automated OTU1f/2f error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT ON SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE

Description	This command sets the automated OTU1f/2f error Rate to be injected. At *RST condition, this value is set to 6.5E-05. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. Choices are 1.0E-09 through 6.5E-05. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE? SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE?	
Description	This query returns the automated OTU1f/2f error Rate to be injected. At *RST condition, this value is set to 6.5E-05. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE

Description	This command selects the automated OTU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE? SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE?	
Description	This query returns the automated OTU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS1: FAS MFAS OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTU1f/2f error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:INJect	
Description	This command enables/disables the manual OTU1f/2f error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOnt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE

Description	This command selects the manual OTU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS MFAS OBEI: BEI OBIP8: BIP-8
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?	
Description	This query returns the manual OTU1f/2f error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS MFAS OBEI: BEI OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE? Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:INJect

Description	This command enables/disables the manual OTU error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:INJect
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:INJ
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE	
Description	This command selects the manual OTU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Defect This query returns the manual OTU error Defect to be injected. Returns the error to be injected:
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS MFAS OBEI: OTU - BEI OBIP8: OTU - BIP-8
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE FAS SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE? Returns: FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?	
Description	This query returns the manual OTU error Defect to be injected. At *RST condition, this value is set to OBIP8. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS MFAS OBEI: OTU - BEI OBIP8: OTU - BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE FAS SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE? Returns: FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC	
Description	This command enables/disables the selection of an OTUC for OTUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the OTUCn per OTUC status. ON: Enables the OTUC. OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OTUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > All OTUC NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?	
Description	This query returns the enable/disable selection status of all OTUC for OTUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer(OTUCn) > All OTUC NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all OTUC. 1: All OTUC are enabled. 0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OTUCn errors injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC? <wsp> <OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for OTUC error injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:OTL:ALANes	
Description	This command enables/disables the selection of all lanes for alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALANes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAN ON
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE

:SOURce:DATA:TELecom:OTN:OTL:ALANes?

Description	This query returns the enable/disable selection status of all lanes for alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALANes?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable selection status of all lanes. 1: All lanes are enabled. 0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAN?
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE?

:SOURce:DATA:TELecom:OTN:OTL:ALARm	
Description	This command enables/disables the continuous OTL alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR ON
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm

:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE

Description	This command selects the continuous OTL alarm Defect to be injected. At *RST condition, this value is set to LOL. Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF LOR OOF OOR
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR:TYPE LOF
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE

:SOURce:DATA:TELEcom:OTN:OTL:ALARm:TYPE?	
Description	This query returns the continuous OTL alarm Defect to be injected. At *RST condition, this value is set to LOL. Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF LOR OOF OOR
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR:TYPE?
See Also	SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE?

:SOURce:DATA:TELecom:OTN:OTL:ALARm?

Description	This query returns the enable/disable status of the continuous OTL alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm?
Response Syntax	<Injection>
Response(s)	Injection: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR?
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AMOunt	
Description	This command sets the manual OTL error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AMOunt <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Injection>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AMO 1
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOut?

Description	This query returns the manual OTL error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOut?

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated	
Description	This command enables/disables the Rate/Max Rate OTL error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error generation. OFF: Disables error generation.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT ON
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTInuous

Description	This command sets the automated OTL error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTInuous <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTInuous?	
Description	This query returns the automated OTL error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTInuous?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE

Description	This command sets the automated OTL error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:RATE?	
Description	This query returns the automated OTL error Rate to be injected. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:RATE?
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE

Description	This command selects the automated OTL error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS LLM
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:TYPE FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:TYPE?	
Description	This query returns the automated OTL error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS LLM
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELEcom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTL error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:INJect	
Description	This command enables/disables the manual OTL error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE

Description	This command selects the manual OTL error Defect to be injected. At *RST condition, this value is set to FAS error. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FAS LLM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:MAN:TYPE FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE?	
Description	This query returns the manual OTL error Defect to be injected. At *RST condition, this value is set to FAS error. Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: FAS LLM
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm

Description	This command enables/disables the OTL global alarm generation. At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n] SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE	
Description	This command selects the type of OTL global alarm. At *RST condition, this value is set to LOL. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of OTL global alarm. LOL
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR:TYPE LOL
See Also	SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE?

Description	This query returns the type of OTL global alarm. At *RST condition, this value is set to LOL. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Defect
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:GLOBal:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of OTL global alarm. LOL, LOL is selected as the OTL alarm.
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR:TYPE?
See Also	SOURce:DATA:TELEcom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?	
Description	This query returns the enabled or disabled OTL global alarm generation. At *RST condition, this value is set to OFF. Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of OTL global alarm generation. 1, global alarm generation is enabled. 0, global alarm generation is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n] SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELEcom:OTN:OTL:LANE

Description	This command enables/disables the selection of a lane for OTL alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > Lane
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:LANE <wsp><Lane>, <Set>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the OTL per lane status. ON: Enables the lane. OFF: Disables the lane.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:LANE 1, ON
See Also	SOURce:DATA:TELEcom:OTN:OTL:ALANes

:SOURce:DATA:TELecom:OTN:OTL:LANE?	
Description	This query returns the enable/disable selection status of a lane for OTL alarms/errors injection purposes. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > Lane
Syntax	:SOURce:DATA:TELecom:OTN:OTL:LANE? <wsp><Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects a lane number.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the selection status of a lane. 1: The lane is enabled. 0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:LANE? 1
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes?

:SOURce:DATA:TELecom:OTN:OTUC:NUMBer

Description	This command selects the OTUC # used for subsequent OTU/ODU/OPU commands/queries for FlexO test application. At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:OTN:OTUC:NUMBer <wsp><OTUC #>
Parameter(s)	OTUC #: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTUC:NUMB 1 SOUR:DATA:TEL:OTN:OTUC:NUMB? Returns 1

:SOURce:DATA:TELecom:OTN:OTUC:NUMBer?	
Description	This query returns the OTUC # used for subsequent OTU/ODU/OPU commands/queries for FlexO test application. At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:OTN:OTUC:NUMBer?
Response Syntax	<OTUC #>
Response(s)	OTUC #: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selected OTUC number
Example(s)	SOUR:DATA:TEL:OTN:OTUC:NUMB 1 SOUR:DATA:TEL:OTN:OTUC:NUMB? Returns 1

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern

Description	This command enables/disables the continuous BER alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > BER> Alarm > Continuous > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PATtern:ALARm:PATtern <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<OTUC #>
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT ON SOUR:DATA:TEL:PATT:ALAR:PATT? Returns: 1
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:MANual:TYPE SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AMOUnt SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel	
Description	This command selects the channel number or client ID used for pattern alarm injection in the Multi-Channel OTN test application. Navigation Path: Results > Summary > BER > Alarms
Syntax	:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel number or client ID used for pattern alarm injection for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<OTUC #>
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN 5
See Also	SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel?

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel?

Description	This query returns the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test. Navigation Path: Results > Summary > BER > Alarms
Syntax	:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for pattern alarm injection for the Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN 3 SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN? Returns 3
See Also	SOURce:DATA:TELecom:PATtern:ALARm:PATtern:CHANnel

:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:TYPE?	
Description	This query returns the continuous BER alarm Defect to be injected. At *RST condition, this value is set to Pattern Loss. Navigation Path: Results > Alarms/Errors > Injection > BER> Alarm > Continuous > Type Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Type
Syntax	:SOURce:DATA:TELecom:PATtern:ALARm:PATtern:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: PLOsS: Pattern Loss
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE PLOS SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE? Returns: PLOS
See Also	SOURce:DATA:TELecom:PATtern:ALARm:PATtern:TYPE? SOURce:DATA:TELecom:PATtern:ALARm:PATtern

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUNT

Description	This command sets the manual BER error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25 Returns: 25
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INject

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOut?	
Description	This query returns the manual BER error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Amount Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:AMO? Returns: 25
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:INJect

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated

Description	This command enables/disables the Rate/Max Rate BER error injection. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enabled OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT OFF SOUR:DATA:TEL:PATT:ERR:PATT:AUT? Returns: 0
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTinuous

**:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated
:CONTInuous**

Description	This command selects the automated BER error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Mode
Syntax	:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON: Enabled OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT OFF SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT? Returns: 0
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTInuous?

Description	This query returns the automated BER error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Mode Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Mode
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: ON for Max Rate and OFF for Rate. 1, Continuous pattern error is enabled. 0, Continuous pattern error is disabled.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT ON SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated?

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:RATE

Description	This command sets the automated BER error Rate to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum MINimum
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE 1.0E-03 SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE? Returns: 1.0E-03
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUnt

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:RATE?

Description	This query returns the rate of pattern error to be injected. At *RST condition, this value is set to 1.0E-04. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate > Rate Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current rate of pattern error to inject is returned. MAXimum: Biggest rate MINimum: Smallest rate
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE 1.0E-03 SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE? Returns: 1.0E-03
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AMOUnt?

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE	
Description	This command selects the automated BER error Defect to be injected. At *RST condition, this value is set to BIT. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BIT PATtern
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:TYPE BIT
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE?

Description	This query returns the automated BER error Defect to be injected. At *RST condition, this value is set to BIT. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected. BIT, bit is selected as automated type pattern error. PATTERN, pattern is selected as automated type pattern error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:TYPE?
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate BER error injection. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1, automated pattern type is enabled. 0, sets the automated pattern type is disabled.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT ON SOUR:DATA:TEL:PATT:ERR:PATT:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel

Description	This command selects the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test. Navigation Path: Test > BERT > Results > Summary > BER > Errors
Syntax	:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	Channel Number or Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:CHAN 5
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel?

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel?	
Description	This query returns the channel used for pattern error injection in the Multi-Channel OTN test application. Navigation Path: Test > BERT > Results > Summary > BER > Errors
Syntax	:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	Channel Number or Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:CHAN 3 SOUR:DATA:TEL:PATT:ERR:PATT:CHAN? Returns 3
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:CHANnel

:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect

Description	This command enables/disables the manual BER error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Inject Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:PATtern:ERRor:PATtern:INJect
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:INJ
See Also	SOURce:DATA:TELecom:PATtern:ERRor:PATtern:AUTomated:TYPE?

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE	
Description	This command selects the manual BER error Defect to be injected. At *RST condition, this value is set to BIT. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BIT PATtern
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE? Returns: BIT
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE

:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE?

Description	This query returns the manual BER error Defect to be injected. At *RST condition, this value is set to BIT. Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Defect Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BIT, bit is selected as the manual type pattern error. PATTERN, pattern is selected as the manual type pattern error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE? Returns: BIT
See Also	SOURce:DATA:TELEcom:PATtern:ERRor:PATtern:AUTomated:TYPE?

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]	
Description	This command enables/disables the continuous E1/E2/E3/E4 alarm injection At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n] <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1 ON
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

:SOURce:DATA:TELeom:PDH:ALARm:E[1..n]:TYPE

Description	This command selects the continuous E1/E2/E3/E4 alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELeom:PDH:ALARm:E[1..n]:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS CLOMf: CRC LOMF LOF3: LOF LOMF RAI RAIM: RAI MF TS16ais: TS16 AIS
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS
See Also	SOURce:DATA:TELeom:PDH:ALARm:E[1..n]:TYPE?

:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE?	
Description	This query returns the continuous E1/E2/E3/E4 alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS CLOMf: CRC LOMF LOF3: LOF LOMF RAI RAIM: RAI MF TS16ais: TS16 AIS
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS SOUR:DATA:TEL:PDH:ALAR:E1:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:PDH:ALARm:E[1..n]:TYPE

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

Description	This query returns the enable/disable status of the continuous E1/E2/E3/E4 alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS SOUR:DATA:TEL:PDH:ALAR:E1 ON SOUR:DATA:TEL:PDH:ALAR:E1? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt	
Description	This command sets the manual E1/E2/E3/E4 error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AMO 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?

:SOURce:DATA:TELeom:PDH:ERRor:E[1..n]:AMOUnt?

Description	This query returns the manual E1/E2/E3/E4 error Amount to be injected. At *RST condition, this value is set to MINimum. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELeom:PDH:ERRor:E[1..n]:AMOUnt?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AMO 15 SOUR:DATA:TEL:PDH:ERR:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELeom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELeom:PDH:ERRor:E[1..n]:AMOUnt

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated	
Description	This command enables/disables the Rate/Max Rate E1/E2/E3/E4 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT ON
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?

**:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CON
Tinuuous**

Description	This command sets the automated E1/E2/E3/E4 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Mode
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON for Max Rate and OFF for Rate. ON: Enabled OFF: Disaled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT ON SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CON Tinuuous?	
Description	This query returns the automated E1/E2/E3/E4 error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Mode
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: ON for Max Rate and OFF for Rate.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT ON SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTInuous

:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:RATE

Description	This command sets the automated E1/E2/E3/E4 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated:RATE? SOURce:DATA:TELEcom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE?	
Description	This query returns the automated E1/E2/E3/E4 error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE? [<wsp> <Rate>]
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE? Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE

Description	This command selects the automated E1/E2/E3/E4 error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE? SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?	
Description	This query returns the automated E1/E2/E3/E4 error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE? Returns: FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate E1/E2/E3/E4 error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09 SOUR:DATA:TEL:PDH:ERR:E1:AUT ON SOUR:DATA:TEL:PDH:ERR:E1:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect	
Description	This command enables/disables the manual E1/E2/E3/E4 error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:AMO 15 SOUR:DATA:TEL:PDH:ERR:E1:INJ
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOUnt

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

Description	This command selects the manual E1/E2/E3/E4 error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?	
Description	This query returns the manual E1/E2/E3/E4 error Defect to be injected. At *RST condition, this value is set to FAS. Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: CRC4: CRC-4 (E1) EBIT: E-Bit (E1) FAS
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE? Returns: FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

Description	This command enables/disables the continuous STS/AU Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE	
Description	This command selects the continuous STS/AU Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH) to be injected: AIS: AIS-P AU-AIS EPCD1: ERDI-PCD HP-ERDI-CD EPPD1: ERDI-PPD HP-ERDI-PD EPSD1: ERDI-PSD HP-ERDI-SD LOP: LOP-P AU-LOP PDI: PDI-P RDI: RDI-P HP-RDI UNEQP1: UNEQ-P HP-UNEQ
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE?	
Description	This query returns the continuous STS/AU Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm (SONET SDH) to be injected: AIS: AIS-P AU-AIS EPCD1: ERDI-PCD HP-ERDI-CD EPPD1: ERDI-PPD HP-ERDI-PD EPSD1: ERDI-PSD HP-ERDI-SD LOP: LOP-P AU-LOP PDI: PDI-P RDI: RDI-P HP-RDI UNEQ1: UNEQ-P HP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH?	
Description	This query returns the enable/disable status of the continuous STS/AU Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM

Description	This command enables/disables the continuous STS/AU Path TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE	
Description	This command selects the continuous STS/AU Path TCM alarm Defect to be injected. At *RST condition, this value is set to LLTC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm (SONET SDH) to be injected: LIAIS: TC-IAIS-P HPTC-IAIS LLTC: TC-LTC-P HPTC-LTC LODI: TC-ODI-P HPTC-ODI LRDI: TC-RDI-P HPTC- RDI LUNEQ: TC-UNEQ-P HPTC-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE? Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TYPE?

Description	This query returns the continuous STS/AU Path TCM alarm Defect to be injected. At *RST condition, this value is set to LLTC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:TCM:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm (SONET SDH) to be injected: LIAIS: TC-IAIS-P HPTC-IAIS LLTC: TC-LTC-P HPTC-LTC LODI: TC-ODI-P HPTC-ODI LRDI: TC-RDI-P HPTC- RDI LUNEQ: TC-UNEQ-P HPTC-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE? Returns: LIAIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM?	
Description	This query returns the enable/disable status of the continuous STS/AU Path TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

Description	This command enables/disables the continuous Line/MS alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE ON SOUR:DATA:TEL:SDHS:ALAR:LINE? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE	
Description	This command selects the continuous Line/MS alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS: AIS-L MS-AIS RDI: RDI-L MS-RDI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE?

Description	This query returns the continuous Line/MS alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS: AIS-L MS-AIS RDI: RDI-L MS-RDI
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE?

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE?	
Description	This query returns the enable/disable status of the continuous Line/MS alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LINE ON SOUR:DATA:TEL:SDHS:ALAR:LINE? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:LINE:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH

Description	This command enables/disables the continuous VT/TU Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables and disables the LOP (Low Order Path) alarm generation. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSONet:ALARm:LOP:PATH:TYPE	
Description	This command selects the continuous VT/TU Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSONet:ALARm:LOP:PATH:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS: AIS-V TU-AIS EVCD: ERDI-VCD LP-ERDI-CD EVPD: ERDI-VPD LP-ERDI-PD EVSD: ERDI-VSD LP-ERDI-SD LPRFi: RFI-V LP-RFI RDI: RDI-V LP-RDI TULop: LOP-V TU-LOP UNEQp: UNEQ-V LP-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSONet:ALARm:HOP:PATH?

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:TYPE?

Description	This query returns the continuous VT/TU Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS: AIS-V TU-AIS EVCD: ERDI-VCD LP-ERDI-CD EVPD: ERDI-VPD LP-ERDI-PD EVSD: ERDI-VSD LP-ERDI-SD LPRFi: RFI-V LP-RFI RDI: RDI-V LP-RDI TULop: LOP-V TU-LOP UNEQp: UNEQ-V LP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH?	
Description	This query returns the enable/disable status of the continuous VT/TU Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:PATH?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM

Description	This command enables/disables the continuous VT/TU Path TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TYPE	
Description	This command selects the continuous VT/TU Path TCM alarm Defect to be injected. At *RST condition, this value is set to LIAIS. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOP:TCM:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LIAIS: TC-AIS-V LPTC-AIS LLTC: TC-LTC-V LPTC-LTC LODI: TC-ODI-V LPTC-ODI LRDI: TC-RDI-V LPTC-RDI LUNEQ: TC-UNEQ-V LPTC-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE? Returns: LIAIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE?

Description	This query returns the continuous VT/TU Path TCM alarm Defect to be injected. At *RST condition, this value is set to TLTC. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LIAIS: TC-AIS-V LPTC-AIS LLTC: TC-LTC-V LPTC-LTC LODI: TC-ODI-V LPTC-ODI LRDI: TC-RDI-V LPTC-RDI LUNEQ: TC-UNEQ-V LPTC-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE? Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM?	
Description	This query returns the enable/disable status of the continuous VT/TU Path TCM alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH

Description	This command enables/disables the continuous TU-3 Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:TYPE

Description	This command selects the continuous TU-3 Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Defect
	This query returns the continuous TU-3 Path alarm Defect to be injected. Returns the alarm to be injected:
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:LOPTu:PATH:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS: TU-AIS ECD: LP-ERDI-CD EPD: LP-ERDI-PD ESD: LP-ERDI-SD LOP: TU-LOP LPRDi: LP-RDI UNEQ: LP-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE ?

Description	This query returns the continuous TU-3 Path alarm Defect to be injected. At *RST condition, this value is set to AIS. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS: TU-AIS ECD: LP-ERDI-CD EPD: LP-ERDI-PD ESD: LP-ERDI-SD LOP: TU-LOP LPRDi: LP-RDI UNEQ: LP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE? Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH?	
Description	This query returns the enable/disable status of the continuous TU-3 Path alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

Description	This command enables/disables the continuous Section/RS alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the continuous alarm Injection. ON: Enables alarm generation. OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT ON SOUR:DATA:TEL:SDHS:ALAR:SECT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE	
Description	This command selects the continuous Section/RS alarm Defect to be injected. At *RST condition, this value is set to LOF1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: LOF1: LOF SEF1: SEF
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE? Returns: LOF1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion?

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE?

Description	This query returns the continuous Section/RS alarm Defect to be injected. At *RST condition, this value is set to LOF1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF1: LOF SEF1: SEF
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE? Returns: LOF1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion

:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion?	
Description	This query returns the enable/disable status of the continuous Section/RS alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1 SOUR:DATA:TEL:SDHS:ALAR:SECT ON SOUR:DATA:TEL:SDHS:ALAR:SECT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ALARm:SECTion:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT

Description	This command sets the manual STS/AU Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT?	
Description	This query returns the manual STS/AU Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

Description	This command enables/disables the Rate/Max Rate STS/AU Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous

Description	This command sets the automated STS/AU Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous?

Description	This query returns the automated STS/AU Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE	
Description	This command sets the automated STS/AU Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

Description	This query returns the automated STS/AU Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE	
Description	This command selects the automated STS/AU Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B3 REI: REI-P HP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

Description	This query returns the automated STS/AU Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B3 REI: REI-P HP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate STS/AU Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

Description	This command enables/disables the manual STS/AU Path error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE	
Description	This command selects the manual STS/AU Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B3 REI: REI-P HP-REI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

Description	This query returns the manual STS/AU Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B3 REI: REI-P HP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated	
Description	This command enables/disables the Rate/Max Rate STS/AU Path TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT ON SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous

Description	This command sets the automated STS/AU Path TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous?	
Description	This query returns the automated STS/AU Path TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE

Description	This command sets the automated STS/AU Path TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?	
Description	This query returns the automated STS/AU Path TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE

Description	This command selects the automated STS/AU Path TCM error Defect to be injected. At *RST condition, this value is set to LIEC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE? SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?	
Description	This query returns the automated STS/AU Path TCM error Defect to be injected. At *RST condition, this value is set to LIEC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate STS/AU Path TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:TCM:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT ON SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELEcom:SDHSONet:ERRor:HOP:TCM:INJect	
Description	This command enables/disables the manual STS/AU Path TCM error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSONet:ERRor:HOP:TCM:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
See Also	SOURce:DATA:TELEcom:SDHSONet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOUNT

Description	This command sets the manual STS/AU Path TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOUNT?	
Description	This query returns the manual STS/AU Path TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOUNT?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE

Description	This command selects the manual STS/AU Path TCM error Defect to be injected. At *RST condition, this value is set to LIEC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE?	
Description	This query returns the manual STS/AU Path TCM error Defect to be injected. At *RST condition, this value is set to LIEC. Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: LIEC: TC-IEC-P HPTC-IEC LOEI: TC-OEI-P HPTC-OEI LREI: TC-REI-P HPTC-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUnt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOut

Description	This command sets the manual Line/MS error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOut <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOut?	
Description	This query returns the manual Line/MS error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated

Description	This command enables/disables the Rate/Max Rate Line/MS error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT ON SOUR:DATA:TEL:SDHS:ERR:LINE:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous	
Description	This command sets the automated Line/MS error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Error > Injection > Line/MS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE? SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous?

Description	This query returns the automated Line/MS error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:CONTInuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE	
Description	This command sets the automated Line/MS error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE?

Description	This query returns the automated Line/MS error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE	
Description	This command selects the automated Line/MS error Defect to be injected. At *RST condition, this value is set to B2. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B2 REI: REI-L MS-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE? Returns: B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE? SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE?

Description	This query returns the automated Line/MS error Defect to be injected. At *RST condition, this value is set to B2. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B2 REI: REI-L MS-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE? Returns: B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate Line/MS error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LINE:AUT ON SOUR:DATA:TEL:SDHS:ERR:LINE:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

Description	This command enables/disables the manual Line/MS error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LINE:INJect
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOUNT

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE	
Description	This command selects the manual Line/MS error Defect to be injected. At *RST condition, this value is set to B2. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B2 REI: REI-L MS-REI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE? Returns: B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMOUnt?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE?

Description	This query returns the manual Line/MS error Defect to be injected. At *RST condition, this value is set to B2. Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B2 REI: REI-L MS-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2 SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE? Returns: B2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:LINE:AMOUnt

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AMOut	
Description	This command sets the manual VT/TU Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOut ?

Description	This query returns the manual VT/TU Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated	
Description	This command enables/disables the Rate/Max Rate VT/TU Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT Returns: 1
See Also	SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous

Description	This command sets the automated VT/TU Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous?	
Description	This query returns the automated VT/TU Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE

Description	This command sets the automated VT/TU Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE <wsp> <Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?	
Description	This query returns the automated VT/TU Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE

Description	This command selects the automated VT/TU Path error Defect to be injected. At *RST condition, this value is set to BIP2. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Defect This query returns the automated VT/TU Path error Defect to be injected. Returns the error to be injected:
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE? Returns: BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?

Description	This query returns the automated VT/TU Path error Defect to be injected. At *RST condition, this value is set to BIP2. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BIP2: BIP-2 LPRei: REI-V LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE? Returns: BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate VT/TU Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:INJect	
Description	This command enables/disables the manual VT/TU Path error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE

Description	This command selects the manual VT/TU Path error Defect to be injected. At *RST condition, this value is set to BIP2. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: BIP2: BIP-2 LPRei: REI-V LP-REI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE? Returns: BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUnt

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE?	
Description	This query returns the manual VT/TU Path error Defect to be injected. At *RST condition, this value is set to BIP2. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: BIP2: BIP-2 LPRei: REI-V LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2 SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE? Returns: BIP2
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated

Description	This command enables/disables the Rate/Max Rate VT/TU Path TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated <wsp> <Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous	
Description	This command sets the automated VT/TU Path TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous?

Description	This query returns the automated VT/TU Path TCM error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE	
Description	This command sets the automated VT/TU Path TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?

Description	This query returns the automated VT/TU Path TCM error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE

Description	This command selects the automated VT/TU Path TCM error Defect to be injected. At *RST condition, this value is set to LBIP. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: LBIP: TC-BIP-V LPTC-BIP LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LIEC (not supported)
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE? SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?

Description	This query returns the automated VT/TU Path TCM error Defect to be injected. At *RST condition, this value is set to LBIP. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: LBIP: TC-BIP-V LPTC-BIP LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LIEC (not supported)
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate VT/TU Path TCM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOP:TCM:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:INJect

Description	This command enables/disables the manual VT/TU Path TCM error injection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOUNT	
Description	This command sets the manual VT/TU Path TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOUnt?

Description	This query returns the manual VT/TU Path TCM error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOUnt?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE	
Description	This command selects the manual VT/TU Path TCM error Defect to be injected. At *RST condition, this value is set to LBIP. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: LBIP: TC-BIP-V LPTC-BIP LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LIEC (not supported)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUnt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE?

Description	This query returns the manual VT/TU Path TCM error Defect to be injected. At *RST condition, this value is set to LBIP. Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: LBIP: TC-BIP-V LPTC-BIP LOEI: TC-OEI-V LPTC-OEI LREI: TC-REI-V LPTC-REI LIEC (not supported)
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE? Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOUNT

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOut	
Description	This command sets the manual TU-3 Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOut <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOut?

Description	This query returns the manual TU-3 Path error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOut?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTOmated	
Description	This command enables/disables the Rate/Max Rate TU-3 Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTInuous

Description	This command sets the automated TU-3 Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTInuous <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous?	
Description	This query returns the automated TU-3 Path error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE

Description	This command sets the automated TU-3 Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported rate MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE? SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?	
Description	This query returns the automated TU-3 Path error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE

Description	This command selects the automated TU-3 Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B3 REI: LP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE? Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE? SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?	
Description	This query returns the automated TU-3 Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B3 REI: LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE? Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate TU-3 Path error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT ON SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:INJect

Description	This command enables/disables the manual TU-3 Path error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE

Description	This command selects the manual TU-3 Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE <wsp> <Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B3 REI: LP-REI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUnt?

:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?	
Description	This query returns the manual TU-3 Path error Defect to be injected. At *RST condition, this value is set to B3. Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B3 REI: LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3 SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE? Returns: B3
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:HOP:PATH:AMOUNT

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMOUNT

Description	This command sets the manual Section/RS error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOut?	
Description	This query returns the manual Section/RS error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOut?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

Description	This command enables/disables the Rate/Max Rate Section/RS error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated <wsp><Inject>
Parameter(s)	Inject: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT ON SOUR:DATA:TEL:SDHS:ERR:SECT:AUT Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous	
Description	This command sets the automated Section/RS error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the automated error Mode: ON: Max Rate OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE? SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous?

Description	This query returns the automated Section/RS error Mode: ON for Max Rate and OFF for Rate. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Error > Injection > Section/RS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTInuous?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the automated error Mode: 1: Max Rate 0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT ON SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:RATE	
Description	This command sets the automated Section/RS error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the rate of error to be injected. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?

Description	This query returns the automated Section/RS error Rate to be injected. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE? Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE	
Description	This command selects the automated Section/RS error Defect to be injected. At *RST condition, this value is set to B1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B1 FAS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE? Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?

Description	This query returns the automated Section/RS error Defect to be injected. At *RST condition, this value is set to B1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B1 FAS
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE? Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated?	
Description	This query returns the enable/disable status of the Rate/Max Rate Section/RS error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated?
Response Syntax	<Inject>
Response(s)	Inject: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10 SOUR:DATA:TEL:SDHS:ERR:SECT:AUT ON SOUR:DATA:TEL:SDHS:ERR:SECT:AUT? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ERRor:SECTion:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

Description	This command enables/disables the manual Section/RS error injection. This command is an event and has no associated *RST condition or query form. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
See Also	SOURce:DATA:TELecom:SDHS:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELecom:SDHS:ERRor:SECTion:AMOUNT

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE	
Description	This command selects the manual Section/RS error Defect to be injected. At *RST condition, this value is set to B1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE <wsp><Error>
Parameter(s)	Error: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: B1 FAS
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE? Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOUnt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?

Description	This query returns the manual Section/RS error Defect to be injected. At *RST condition, this value is set to B1. Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?
Response Syntax	<Error>
Response(s)	Error: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the error to be injected: B1 FAS
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE? Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOUNT

:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE	
Description	This command selects the continuous OAM alarm Address Type for injection. At *RST condition, this value is set to Unicast. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE[<wsp><AdresseType>]
Parameter(s)	AdresseType: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Address Type: MULTicast UNIcast
Response Syntax	<Error>
Example(s)	SOURce:DATA:TEL:SOAM:ALAR:ADDR:TYPE MULT
See Also	SOURce:DATA:TELecom:SOAM:ALARm:TYPE?

:SOURce:DATA:TELecom:SOAM:ALARm:ADDRes:TYPE?

Description	This query returns the continuous OAM alarm Address Type for injection. At *RST condition, this value is set to Unicast. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:ADDRes:TYPE?
Response Syntax	<AddressType>
Response(s)	AddressType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Address Type: MULTicast UNICAST
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:ADDR:TYPE?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:TYPE

:SOURce:DATA:TELecom:SOAM:ALARm:DEFect	
Description	This command selects the continuous OAM alarm Defect to be injected. At *RST condition, this value is set to RDI. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Defect
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:DEFect[<wsp><Defect>]
Parameter(s)	Defect: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm to be injected: AIS: AIS CDCI: C-DCI CFDI: C-FDI CLOS: C-LOS CRDI: C-RDI LCK: LCK RDI: RDI
Response Syntax	<AddressType>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:DEF AIS
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PRiority?

:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?

Description	This query returns the continuous OAM alarm Defect to be injected. At *RST condition, this value is RDI. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Defect
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: AIS: AIS CDCI: C-DCI CFDI: C-FDI CLOS: C-LOS CRDI: C-RDI LCK: LCK RDI: RDI
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:DEF?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PRiority

:SOURce:DATA:TELecom:SOAM:ALARm:GENerate	
Description	This command sets the alarm injection On or Off. At *RST condition, this value is set to off. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Inject
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:GENerate <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:GEN ON
See Also	SOURce:DATA:TELecom:SOAM:ALARm:AMOUnt?

:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?

Description	This query returns the transmission period of the CCM frame. At *RST condition, this value is set to 10 ms. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Inject
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of alarm injection. 1, status of alarm is enabled 0, status of alarm is disabled
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:GEN?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:AMOUnt

:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel	
Description	This command selects the continuous OAM alarm MD Level for injection. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel[<wsp><MD Level>]
Parameter(s)	MD Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the MD Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MD:LEV 4
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PERiod?

:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?

Description	This query returns the continuous OAM alarm MD Level for injection. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?
Response Syntax	<MD Level>
Response(s)	MD Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MD Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MD:LEV?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PERiod

:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel	
Description	This command selects the continuous OAM alarm MEG Level for injection. At *RST condition, this value is set to 7. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel[<wsp><MEG Level>]
Parameter(s)	MEG Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the MEG Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<MD Level>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MEG:LEV 4
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DROP:ELIGible?

:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?

Description	This query returns the continuous OAM alarm MEG Level for injection. At *RST condition, this value is set to 7. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?
Response Syntax	<MEG Level>
Response(s)	MEG Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the MEG Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MEG:LEV?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DROp:ELIGible

:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod	
Description	This command selects the continuous OAM alarm Period for injection. At *RST condition, this value is set to 1 ms. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Period
Syntax	:SOURce:DATA:TELEcom:SOAM:ALARm:PERiod[<wsp><Period>]
Parameter(s)	Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Period: P333MS: 3.33 MilliSeconds P10MS: 10 MilliSeconds P100MS: 100 MilliSeconds P1S: 1 Second P10S: 10 Seconds P1MIN: 1 Minute P10MIN: 10 Minutes
Response Syntax	<MEG Level>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PER P1MIN
See Also	SOURce:DATA:TELEcom:SOAM:ALARm:MD:LEVel?

:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?

Description	This query returns the continuous OAM alarm Period for injection. At *RST condition, this value is set to 10 ms. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Period
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?
Response Syntax	<Period>
Response(s)	Period: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Period: P333MS: 3.33 MilliSeconds P10MS: 10 MilliSeconds P100MS: 100 MilliSeconds P1S: 1 Second P10S: 10 Seconds P1MIN: 1 Minute P10MIN: 10 Minutes
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PER?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel

:SOURce:DATA:TELecom:SOAM:ALARm:PRiority	
Description	This command selects the continuous OAM alarm Priority for injection. At *RST condition, this value is set to 0. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Priority
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PRiority <wsp><value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the priority: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PRI 2
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DEFect?

:SOURce:DATA:TELecom:SOAM:ALARm:PRiority?

Description	This query returns the continuous OAM alarm Priority for injection. At *RST condition, this value is set to 7. Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Priority
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PRiority?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the priority: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PRI?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DEFect

Traces - SONET/SDH

:FETCh:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?	
Description	This query returns the received value for Path Overhead. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > OC > Traces > > TCM Access Point Identifier > STS Path > Received Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > STM > Traces > > TCM Access Point Identifier > AU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:HOP:TCAP:N1:RECeived? Returns: tcmmessage
See Also	FETCh:DATA:TELecom:SDHSonet:POVerhead:J1:TIM:PATtern:RECeived

:FETCh:DATA:TELeom:SDHSonet:LOP:OVERhead:J[1..n]:TIM: PATTern:RECeived?

Description	This query returns the received J2 and J1 value for Low Path Overhead. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > VT Path (J2) > Received Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces TU Path (J2) > Received Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces TU3 Path (J1) > Received
Syntax	:FETCh:DATA:TELeom:SDHSonet:LOP:OVERhead:J[1..n]:TIM:PATTern:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received J2 value for Low Path Overhead
Example(s)	FETC:DATA:TEL:SDHS:LOP:OVER:J2:TIM:PATT:REC?
See Also	FETCh:DATA:TELeom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived

:FETCh:DATA:TELEcom:SDHSonet:LOP:TCAPident:N[1..n]:RECEived?	
Description	This query returns the received value for Path Overhead. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > OC > Traces > > TCM Access Point Identifier > STS Path > Received Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > STM > Traces > > TCM Access Point Identifier > AU Path > Received
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:TCAPident:N[1..n]:RECEived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:LOP:TCAP:N2:RECEived? Returns: tcmmmessage
See Also	FETCh:DATA:TELEcom:SDHSonet:POVerhead:J1:TIM:PATtern:RECEived

**:FETCh:DATA:TELecom:SDHSonet:POVerhead:J[1..n]:TIM:PAT
Tern:RECeived?**

Description	This query returns the received J1 value for Path Overhead. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SONET > Traces > STS Path (J1) > Received Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SDH > Traces > AU Path (J1) > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:POVerhead:J[1..n]:TIM:PATtern:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received J1 value for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:POV:J1:TIM:PATT:REC?
See Also	FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATtern:RECeived

:FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PAT Tern:RECeived?	
Description	This query returns the received J0 value for Section Overhead. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SONET > Traces > Section (J0) > Received Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SDH > Traces > RS (J0) > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATtern:RECeived?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received J0 value for Section Overhead.
Example(s)	FETC:DATA:TEL:SDHS:SOV:J100:TIM:PATT:REC?
See Also	FETCh:DATA:TELecom:SDHSonet:POVerhead:J1:TIM:PATtern:RECeived

:SENSe:DATA:TELeom:SDHSonet:HOP:TCAPident:COPY

Description	This event sets the copy Rx to instrument for HOP TCM Path Overhead. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-P > Copy RX Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > HPTC-TIM > Copy RX
Syntax	:SENSe:DATA:TELeom:SDHSonet:HOP:TCAPident:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:COPY
See Also	SENSe:DATA:TELeom:SDHSonet:LINE:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:COPI	
Description	This command sets the copy Rx to instrument for Low Path Overhead. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-V > Copy RX Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > LP-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:COPI
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:COPI
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPI

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:COPY

Description	This event sets the copy Rx to instrument for LOP TCM Path Overhead. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-V > Copy RX Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > LPTC-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPIRX	
Description	This command sets the copy Rx to instrument for Path Overhead. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SONET > Traces > TIM-P > Copy RX Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SDH > Traces > HP-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPIRx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPIYrx

Description	This command sets the copy Rx to instrument for Section Overhead. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SONET > Traces > TIM-S > Copy RX Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SDH > Traces > RS-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPIYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPY

Traces - OTN

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?	
Description	This query returns the ODU1e/2e/3e1/3e2 TCM DAPI Received Message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:B16? Returns: EXFO TCM1 DAPI
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:OPSPec:B?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM Operator Specific Received Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:OPSP:B32? Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:S API:B?	
Description	This query returns the ODU1e/2e/3e1/3e2 TCM SAPI Received Message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:B16? Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 DAPI Received Message. At *RST condition, this value is set to EXFO ODU DAPI. Navigation Path: Results > Traces > OTN > OTU > PM TTI Traces > DAPI NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU3:E1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?	
Description	This query returns the ODU1e/2e/3e1/3e2 PM Operator Specific Received Message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > Operator Specific - Received Message NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELEcom:OTN:ODU3:E1:TTI:OPSPec:B?
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI received message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETCh:DATA:TELEcom:OTN:ODU3:E1:TTI:SAPI:B?
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B?	
Description	This query returns the ODU1f/2f TCM DAPI Received Message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:B? Returns: EXFO TCM1 DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

**:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPe
c:B?**

Description	This query returns the ODU1f/2f TCM Operator Specific Received Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:OPSP:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B?	
Description	This query returns the ODU1f/2f TCM SAPI Received Message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:B? Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:B?

Description	This query returns the received DAPI message for Over Clocked ODU TTI. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > TTI Traces > ODU > PM TTI Traces > DAPI
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OPSPec:B?	
Description	This query returns the ODU1f/2f PM Operator Specific Received Message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:OPSPec:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:B?

Description	This query returns the ODU1f/2f PM SAPI received message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?	
Description	This query returns the ODU TCM DAPI Received Message. At *RST condition, this value is set to EXFO TCMn DAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for ODU TCM TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPec:B?

Description	This query returns the ODUn TCM Operator Specific Received Message. At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for ODU TCM TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:OPSP:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?	
Description	This query returns the ODUn TCM SAPI Received Message. At *RST condition, this value is set to EXFO TCMn SAPI. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:SAPI:B? Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?

Description	This query returns the received message for ODU TTI Trace. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > TTI Traces > ODU > PM TTI Traces In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:CHANnel. The query can not be used for all channels. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for ODU TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:DAPI:B? For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2 FETC:DATA:TEL:OTN:ODU100:TTI:DAPI:B? For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2 FETC:DATA:TEL:OTN:ODU101:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B? For Multi-Channel OTN: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel? For FlexO BERT: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLient SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLient?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?	
Description	This query returns the ODU PM Operator Specific Received Message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces > Operator Specific - Received Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The query can not be used for all channels. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for ODU TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:OPSP:B? For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2 FETC:DATA:TEL:OTN:ODU100:TTI:OPSP:B? For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2 FETC:DATA:TEL:OTN:ODU101:TTI:OPSP:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B? For Multi-Channel OTN: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel? For FlexO BERT: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLient SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLient?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?

Description	This query returns the ODUn PM SAPI received message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The query can not be used for all channels. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:SAPI:B? For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2 FETC:DATA:TEL:OTN:ODU100:TTI:SAPI:B? For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2 FETC:DATA:TEL:OTN:ODU101:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B? For Multi-Channel OTN: SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel? For FlexO BERT: SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?	
Description	This query returns the OTU1e/2e/3e1/3e2 DAPI Received Message. At *RST condition, this value is set to EXFO OTUn DAPI. Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:B16? Returns: EXFO OTU DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPec:B?	
Description	This query returns the received message for overclocked rates OTU3e1/2. At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU3e(1/2) > SM TTI Traces > Operator Specific NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELEcom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:OPSP:B32? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?	
Description	This query returns the received message for overclocked rates OTU3e1/2. At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU3e(1/2) > SM TTI Traces > SAPI NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:B16? Returns: EXFO OTU SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?

Description	This query returns the OTU1f/2f DAPI Received Message. At *RST condition, this value is set to EXFO OTUn DAPI. Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:DAPI:B? Returns: EXFO OTU DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:OPSPec:B?	
Description	This query returns the received message for non-standard rates OTU(1/2)f At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU(1/2)f > SM TTI Traces > Operator Specific
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:OPSP:B? Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?

Description	This query returns the received message for non-standard rates OTU(1/2)f At *RST condition, this value is set to EXFO OTU SAPI. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU(1/2)f > SM TTI Traces > SAPI
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:SAPI:B? Returns: EXFO OTU SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?	
Description	This query returns the OTU DAPI Received Message. At *RST condition, this value is set to EXFO OTUn DAPI. Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELeom:OTN:OTU[1..n]:TTI:OPSPec:B?

Description	This query returns the received message for the instrument. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:FETCh:DATA:TELeom:OTN:OTU[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:OPSP:B?
See Also	FETCh:DATA:TELeom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?	
Description	This query returns the received message for the instrument. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > SAPI
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPY

Description	This command uses the ODU1e/2e/3e1/3e2 TCM DAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELeom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: SAPI:COPY	
Description	This command uses the ODU1e/2e/3e1/3e2 TCM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELeom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPY

Description This command uses the ODU1e/2e/3e1/3e2 PM DAPI Received Message as the Expected Message.
This command is an event and is not associated with an *RST condition or a query form.
Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX
NOTE: For :E[1..n];, use :E: for ODU1e/2e.

Syntax :SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPY

Response Syntax <Message>

Example(s) SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:COPY

See Also SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPY	
Description	This command uses the ODU1e/2e/3e1/3e2 PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn PM TTI Traces > SAPI - Copy RX NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPY

**:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:
COPY**

Description	This command uses the ODU1f/2f TCM DAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPI	
Description	This command uses the ODU1f/2f TCM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:COPY

Description	This command uses the ODU1f/2f PM DAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:COPY	
Description	This command uses the ODU1f/2f PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn PM TTI Traces > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPIYrx	
Description	This command uses the ODUn TCM DAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPIYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:CO PYrx	
Description	This command uses the ODUn TCM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPIYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPIRx

Description	This command uses the ODUn PM DAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX In Multi-Channel OTN, when copying an ODU LO DAPI Trace, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The DAPI Trace can also be copied on all channels by using SENSE:DATA:TEL:OTN:ODU[1..n]:TTI:ACHannel. In FlexO BERT, when copying an ODU LO DAPI Trace, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The DAPI Trace can also be copied on all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPIRx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY For Multi-Channel OTN SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHannel SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHannel? For FlexO BERT: SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPIRrx	
Description	This command uses the ODU_n PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODU_n > ODU_n PM TTI Traces > SAPI - Copy RX In Multi-Channel OTN, when copying an ODU LO SAPI Trace, the channel must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The SAPI Trace can also be copied on all channels by using SENSE:DATA:TEL:OTN:ODU[1..n]:TTI:ACHannel. In FlexO BERT, when copying an ODU LO SAPI Trace, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The SAPI Trace can also be copied on all clients by using SENSE:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPIRrx
Response Syntax	<Message>
Example(s)	SENSe:DATA:TEL:OTN:ODU1:TTI:SAPI:COPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPI For Multi-Channel OTN SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHannel SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHannel? For FlexO BERT: SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:CLient? SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPY

Description	This command sets the copy Rx to instrument for overclocked rates OTU3e1/2. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPY	
Description	This command uses the OTU1e/2e/3e1/3e2 PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Copy RX NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:COPY

Description	This command sets the copy Rx to instrument for over clocked rates [example OTU(1/2)f]. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY	
Description	This command uses the ODU1f/2f PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Copy RX NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPIRx

Description	This command sets the copy Rx to instrument. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPIRx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPIRx	
Description	This command uses the ODU_n PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODU_n > PM TTI Traces > SAPI - Copy RX NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPIRx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

Traces/PT (FlexO)

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient

Description	This command forces the ODU TTI Traces commands/queries to be applied on all clients (ON) or a single client (OFF) for FlexOTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient <wsp><AllClient>
Parameter(s)	AllClient: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects if the ODU TTI Traces commands/queries are applied on all clients (ON) or a single client (OFF).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU101:TTI:ACLI ON SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP XFO ODU SAPI SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent?

Description	This query returns if the ODU TTI Traces commands/queries are applied on all clients (ON) or a single client (OFF) for FlexOTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent?
Response Syntax	<AllClient>
Response(s)	AllClient: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the ODU TTI Traces commands/queries are to be applied on all FlexO clients 1, ODU TTI Trace commands/queries are applied on all channels. 0, ODU TTI Trace commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:ODU[1..n]:TTI:CLI.
Example(s)	SENS:DATA:TEL:OTN:ODU101:TTI:ACLI ON SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP XFO ODU SAPI SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP? Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient

Description	This command sets the value of the client used by the ODU TTI Traces for FlexOTN test. At *RST condition, this value is set to 1. When setting a client value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient <wsp> <ClientId>
Parameter(s)	ClientId: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the client used for ODU TTI Traces, when AllClient is not selected, in the FlexOTN test application.
Response Syntax	<AllClient>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CLI 3 SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3 SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient? SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:AClient

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient?	
Description	This query returns the value of the client used by the ODU TTI Traces for FlexOTN test. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient?
Response Syntax	<ClientId>
Response(s)	ClientId: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the client used for the ODU TTI Trace, when AllClient is 'OFF', in the FlexOTN test application.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CLI 3 SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3 SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP? Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient

:SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient

Description	This command forces the Payload Type commands/queries to be applied on all clients (ON) or a single client (OFF) for FlexO BERT test. At *RST condition, this value is set to OFF. Navigation Path: Results > PT > ODUK > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient <wsp><Client ID>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects if the Payload Type commands/queries are applied on all clients (ON) or a single client (OFF).
Response Syntax	<ClientId>
Example(s)	SENS:DATA:TEL:OTN:OPU101:ACL ON SENS:DATA:TEL:OTN:OPU101:ACL OFF
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CClient? SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient?	
Description	This query returns if the Payload Type commands/queries are applied on all client IDs (ON) or a single client ID (OFF) for FlexO BERT test. At *RST condition, this value is set to OFF. Navigation Path: Setup > ODU Channels > PT >Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient?
Response Syntax	<AllClientIds>
Response(s)	AllClientIds: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the Payload Type commands/queries are to be applied on all client IDs. 1, OPU Payload Type commands/queries are applied on all client IDs. 0, OPU Payload Type commands/queries are applied on a specific client ID determined by SENSe:DATA:TELecom:OTN:OPU[1..n]:CClient
Example(s)	SENS:DATA:TEL:OTN:OPU101:ACL?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:AClient SENSe:DATA:TELecom:OTN:OPU[1..n]:CClient

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient

Description	This command sets the value of the client ID used by the Payload Type for FlexO BERT test. When setting a client ID value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:OPU[1..n]:ACLient At *RST condition, this value is set to 1. Navigation Path: Results > PT > ODUK > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient <wsp> <Client ID>
Parameter(s)	Client ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Global parameter, applicable to FlexO BERT test application Selects the client ID.
Response Syntax	<AllClientIds>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACL? Returns: 1 SENS:DATA:TEL:OTN:OPU101:CLI 2 SENS:DATA:TEL:OTN:OPU101:ACL? Returns: 0
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient?	
Description	This query returns the value of the client ID used by the Payload Type, when command AllCHannel is 'OFF', for FlexO BERT test. At *RST condition, this value is set to 1. Navigation Path: Results > PT > ODUK > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient?
Response Syntax	<Client ID>
Response(s)	Client ID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the client ID used for the Payload Type, when command AllCHannel is 'OFF', for FlexO BERT test application.
Example(s)	SENS:DATA:TEL:OTN:OPU101:CLI?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

Logger and Alarms/Errors Logger

:FETCh:DATA:TELecom:LOGGer:EVENTs?

Description	This query returns the total number of test events recorded. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Logger
Syntax	:FETCh:DATA:TELecom:LOGGer:EVENTs?
Response Syntax	<Event>
Response(s)	Event: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total number of test events recorded.
Example(s)	FETC:DATA:TEL:LOGG:EVEN?
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

:FETCh:DATA:TELEcom:LOGGer:LIST?	
Description	This query returns the list of test events. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Logger
Syntax	:FETCh:DATA:TELEcom:LOGGer:LIST?[<wsp><Eventno>]
Parameter(s)	Eventno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. If event number is not provided, then the entire event list is returned and if it is provided the event of that particular number from the list is returned.
Response Syntax	<List>
Response(s)	List: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the list of test events.
Example(s)	FETC:DATA:TEL:LOGG:LIST?
See Also	FETCh:DATA:TELEcom:LOGGer:EVENTs?

Performance Monitoring

:FETCh:DATA:TELEcom:DSN:DS[1..n]:PM:STATistics?

Description	This query returns the performance monitoring statistics for DS1/DS3 level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > DS1/DS3
Syntax	:FETCh:DATA:TELEcom:DSN:DS[1..n]:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G826ISM: G.826 ISM M2100ISM: M.2100 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. BBE: Background Block Error (SES). BBER: Background Block Error Ratio (BBER). EB: Errored Block (EB). EFS: Error Free Seconds (EFS). ES: Errored Seconds (ES). ESR: Errored Second Ratio (ESR). SES: Severely Errored Seconds (SES). SESR: Severely Errored Second Ratio (SESR). UAS: Unavailable Second (UAS). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:DSN:DS[1..n]:PM:STATistics?	
Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Digital Signal (DS).
Example(s)	FETC:DATA:TEL:DSN:DS1:PM:STAT? G826ISM,EFS,NEND
See Also	FETCh:DATA:TELecom:SONet:SECTIon:PM:STATistics?

:FETCh:DATA:TELEcom:PATtern:PM:STATistics?

Description	This query returns the performance monitoring statistics for BERT level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > BERT
Syntax	:FETCh:DATA:TELEcom:PATtern:PM:STATistics? <wsp><Standard>, <Type>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G821: G.821 M2100OOSM: M.2100 OOSM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. DM: Degraded Minutes (DM). EC: Error Count (EC). EFS: Error Free Seconds (EFS). ES: Errored Seconds (ES). ESR: Errored Second Ratio (ESR). SES: Severely Errored Seconds (SES). SESR: Severely Errored Second Ratio (SESR). UAS: Unavailable Second (UAS).
Response Syntax	<Statistics>
Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns performance monitoring statistics of Pattern.
Example(s)	FETC:DATA:TEL:PATT:PM:STAT? G821, EFS
See Also	FETCh:DATA:TELEcom:SONet:SECTIon:PM:STATistics?

:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics?	
Description	This query returns the performance monitoring statistics for E1/E2/E3/E4 level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > E1/E2/E3/E4
Syntax	:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G826ISM: G.826 ISM M2100ISM: M.2100 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics?

Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of European standard for digital transmission levels.
Example(s)	FETC:DATA:TEL:PDH:E1:PM:STAT? G826ISM,EFS,NEND
See Also	FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELEcom:SDHSonet:HOP:PM:STATistics?	
Description	This query returns the performance monitoring statistics for STS-n/AU-n HOP level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > STS-n/AU-n
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:PM:STATistics? <wsp> <Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G828ISM: G.828 ISM M2101ISM: M.2101 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). SEP: Severely Errored Period (SEP). SEPI: Severely Errored Period Intensity (SEPI). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of HOP.
Example(s)	FETC:DATA:TEL:SDHS:HOP:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SONet:LINE:PM:STATistics?

:FETCh:DATA:TELEcom:SDHSonet:LOP:PM:STATistics?	
Description	This query returns the performance monitoring statistics for VTn/TU-n LOP level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > VTn/TU-n
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G828ISM: G.828 ISM M2101ISM: M.2101 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). SEP: Severely Errored Period (SEP). SEPI: Severely Errored Period Intensity (SEPI). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SDHSonet:LOP:PM:STATistics?

Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Low Order Path (LOP).
Example(s)	FETC:DATA:TEL:SDHS:LOP:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELEcom:SDHSonet:LOPTu:PM:STATistics?

Description	This query returns the performance monitoring statistics for TU-3 LOP level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > TU-3
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOPTu:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G828ISM: G.828 ISM M2101ISM: M.2101 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). SEP: Severely Errored Period (SEP). SEPI: Severely Errored Period Intensity (SEPI). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PM:STATistics?

Response Syntax	<Statistics>
Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Low Order Path (LOPTu).
Example(s)	FETC:DATA:TEL:SDHS:LOPT:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics?	
Description	This query returns the performance monitoring statistics for Line/MS level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > Line/MS
Syntax	:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G829ISM: G.829 ISM M2101ISM: M.2101 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Near-End or Far-End. NEND: the standard for Near-End. FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics?

Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Line.
Example(s)	FETC:DATA:TEL:SON:LINE:PM:STAT? M2101ISM,ES,NEND
See Also	FETCh:DATA:TELecom:PATtern:PM:STATistics?

:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?	
Description	This query returns the performance monitoring statistics for Section/RS level. At *RST condition, this value is device dependent. Navigation Path: Test > Results > Performance Monitoring > Section/RS
Syntax	:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring standard number. G829ISM: G.829 ISM Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the performance monitoring statistics. EFS: Error Free Seconds (EFS). EB: Errored Block (EB). ES: Errored Seconds (ES). SES: Severely Errored Seconds (SES). BBE: Background Block Error (SES). UAS: Unavailable Second (UAS). ESR: Errored Second Ratio (ESR). SESR: Severely Errored Second Ratio (SESR). BBER: Background Block Error Ratio (BBER). End: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Near-End. NEND: the standard for Near-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

Response(s)	Statistics: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Section.
Example(s)	FETC:DATA:TEL:SON:SECT:PM:STAT? G829ISM, EFS, NEND
See Also	FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

Traffic - Ethernet

:SENSe:DATA:TELeom:ETHernet:FRAMe:COUNt:RX?	
Description	This query returns the number of received frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet > RX Count Navigation Path: Results > Summary > Traffic > RX Count
Syntax	:SENSe:DATA:TELeom:ETHernet:FRAMe:COUNt:RX? <wsp> <Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame type MULTicast: Multicast BROadcast: Broadcast UNICast: Unicast NUNicast: Non-Unicast FTOTal: Total
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of received frames. MULTicast: the frame type as Multicast. BROadcast: the frame type as Broadcast. UNICast: the frame type as Unicast. NUNicast: the frame type as Non-Unicast. FTOTal: the frame type as Total.
Example(s)	SENS:DATA:TEL:ETH:FRAM:COUN:RX? MULT
See Also	SENSe:DATA:TELeom:ETHernet:PACKet:FRAMe:COUNt?

:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNT?

Description	This query returns the total number of all valid and invalid frames received. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet > Frame Size > RX Count
Syntax	:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNT? <wsp><Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame size. FLESS64: frame size less than 64. F64: frame size equal to 64. F65to127: frame size between 65 to 127. F128to255: frame size between 128 to 255. F256to511: frame size between 256 to 511. F512to1023: frame size between 512 to 1023. F1024to1518: frame size between 1024 to 1518. FMORE1518: frame size more than 1518. FSTotal: total frame size.
Response Syntax	<Count>

:SENSe:DATA:TELeom:ETHernet:FSIZe:COUNT?

Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of all valid and invalid frames received. FLESS64: frame size less than 64. F64: frame size equal to 64. F65TO127: frame size between 65 to 127. F128TO255: frame size between 128 to 255. F256TO511: frame size between 256 to 511. F512TO1023: frame size between 512 to 1023. F1024TO1518: frame size between 1024 to 1518. FMORE1518: frame size more than 1519. FSTotal: total frame size.
Example(s)	SENS:DATA:TEL:ETH:FSIZ:COUN? F64
See Also	SENSe:DATA:TELeom:ETHernet:PACKet:FRAMe:COUNT?

:SENSe:DATA:TELeom:ETHernet:FSIZe:PERCentage?

Description	The query returns the percentage of each frames received. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet > Frame Size > %
Syntax	:SENSe:DATA:TELeom:ETHernet:FSIZe:PERCentage? <wsp> <Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame size. FLESS64: frame size less than 64. F64: frame size equal to 64. F65to127: frame size between 65 to 127. F128to255: frame size between 128 to 255. F256to511: frame size between 256 to 511. F512to1023: frame size between 512 to 1023. F1024to1518: frame size between 1024 to 1518. FMORE1518: frame size more than 1518.
Response Syntax	<Percent>
Response(s)	Percent: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the percentage of each frame received.
Example(s)	SENS:DATA:TEL:ETH:FSIZ:PERC? F64
See Also	SENSe:DATA:TELeom:ETHernet:FSIZe:COUNt?

:SENSe:DATA:TELEcom:ETHernet:PACKet:BANDwidth?	
Description	This query returns the Bandwidth for TX/RX. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELEcom:ETHernet:PACKet:BANDwidth? <wsp> <FTYP>
Parameter(s)	FTYP: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transmitting/receiving bandwidth. RX: sets the total of all receiving bandwidth. TX: sets the total of all transmitting bandwidth.
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the transmitting/receiving frame bandwidth. RX: returns the total of all receiving frame bandwidth. TX: returns the total of all transmitting frame bandwidth.
Example(s)	SENS:DATA:TEL:ETH:PACK:BAND? RX
See Also	SENSe:DATA:TELEcom:ETHernet:PACKet:LINE:UTILization?

:SENSe:DATA:TELeom:ETHernet:PACKet:FRAMe:COUNT?

Description	This query returns the Frame count for TX/RX. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Traffic
Syntax	:SENSe:DATA:TELeom:ETHernet:PACKet:FRAMe:COUNT? <wsp> <FTYP>
Parameter(s)	FTYP: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the number of frames transmitted. RX: Gives the total of all received valid and invalid frames. TX: Gives the total of all transmitted frames.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of transmitted or received frames. RXCount: Gives the total of all received valid and invalid frames. TXCount: Gives the total of all transmitted frames.
Example(s)	SENS:DATA:TEL:ETH:PACK:FRAM:COUN? TX
See Also	SENSe:DATA:TELeom:ETHernet:FSIZe:COUNT?

:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:RATE?	
Description	This query returns the Frame Rate for TX/RX. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary > Traffic Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:RATE? <wsp><FTYP>
Parameter(s)	FTYP: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the transmitted/received number of frames. RX: sets the total of all received frames. TX: sets the total of all transmitted frames.
Response Syntax	<Frame Rate>
Response(s)	Frame Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the transmitting/receiving line utilization. RX: returns the total of all receiving line utilization. TX: returns the total of all transmitting line utilization.
Example(s)	SENS:DATA:TEL:ETH:PACK:FRAM:RATE? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth?

:SENSe:DATA:TELeom:ETHernet:PACKet:LINE:UTILization?

Description	This query returns the transmitting/receiving line rate utilization. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELeom:ETHernet:PACKet:LINE:UTILization? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the transmitting/receiving line utilization. RX: sets the total of all receiving line utilization. TX: sets the total of all transmitting line utilization.
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the transmitting/receiving line utilization. RX: returns the total of all receiving line utilization. TX: returns the total of all transmitting line utilization.
Example(s)	SENS:DATA:TEL:ETH:PACK:LINE:UTIL? RX
See Also	SENSe:DATA:TELeom:ETHernet:PACKet:FRAMe:COUNt?

:SOURce:DATA:TELEcom:ETHernet:FRAME:COUNT:TX?	
Description	This query returns the number of transmitted frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Ethernet > TX Count Navigation Path: Results > Summary > Traffic > TX Count
Syntax	:SOURce:DATA:TELEcom:ETHernet:FRAME:COUNT:TX? <wsp> <Ftype>
Parameter(s)	Ftype: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame type. MULTicast: Multicast BROadcast: Broadcast UNicast: Unicast NUNicast: Non-Unicast FTOTal: Total
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of transmitted frames. MULTicast: Multicast as the frame type. BROadcast: Broadcast as the frame type. UNicast: Unicast as the frame type. NUNicast: Non-Unicast as the frame type. FTOTal: Total as the frame type.
Example(s)	SOUR:DATA:TEL:ETH:FRAM:COUN:TX? MULT
See Also	SOURce:DATA:TELEcom:ETHernet:FRAME:COUNT:RX?

Traffic - Flow Control

:FETCh:DATA:TELEcom:ETHernet:PACKet:PAUSE:TIME:RX?

Description	This query returns the total number of packet pause time received from the link partner. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELEcom:ETHernet:PACKet:PAUSE:TIME:RX? <wsp> <FTYP>
Parameter(s)	FTYP: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the pause time. TOTALPAUSE: returns the Total pause time. LASTPAUSE: sets the Last pause time. MINPAUSE: sets the Minimum pause time. MAXPAUSE: sets the Maximum pause time.
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of pause time received.
Example(s)	FETC:DATA:TEL:ETH:PACK:PAUS:TIME:RX? TOTALPAUSE
See Also	SOURce:DATA:TELEcom:ETHernet:FRAME:COUNT:TX?

:FETCh:DATA:TELEcom:ETHernet:PAUSe:FRAMes:ABORt?

Description	This query returns the number of received pause frames with a Quanta equal to zero; cancelling the pause frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELEcom:ETHernet:PAUSe:FRAMes:ABORt?
Response Syntax	<Abort>
Response(s)	Abort: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of received pause frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:ABOR?
See Also	FETCh:DATA:TELEcom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?

Description	This query reports total number of pause frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?
Response Syntax	<FrameRx>
Response(s)	FrameRx: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of received flow control frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:RX?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?	
Description	This query reports total number of pause frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?
Response Syntax	<FrameRx>
Response(s)	FrameRx: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Pause Time
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:TX?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

Description	This query returns the number of pause frames. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Reports the number of pause frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?

:SOURce:DATA:TELeom:ETHernet:PACKet:PAUSe:INJect	
Description	This command injects pause time to the link partner. This command is an event and is not associated with any *RST condition or a query form. Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELeom:ETHernet:PACKet:PAUSe:INJect
Response Syntax	<Frames>
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:INJ
See Also	SOURce:DATA:TELeom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME

Description	This command sets the total number of packet pause time for the link partner. At *RST condition, this value is set to 100 Quanta. Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME <wsp><Pause Time>
Parameter(s)	Pause Time: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Pause packet time. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Frames>
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:TIME 50
See Also	SOURce:DATA:TELecom:ETHernet:FRAMe:COUNT:TX?

:SOURce:DATA:TELeom:ETHernet:PACKet:PAUSe:TIME?	
Description	This query returns the total number of packet pause time received from the link partner. At *RST condition, this value is set to 100 Quanta. Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELeom:ETHernet:PACKet:PAUSe:TIME?[<wsp><Pause Time>]
Parameter(s)	Pause Time: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Pause packet time. This parameter is optional. If no token is specified, the current Packet Pause Time is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total number of pause time received.
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:TIME 50 SOUR:DATA:TEL:ETH:PACK:PAUS:TIME? Returns: 50
See Also	SOURce:DATA:TELeom:ETHernet:FRAMe:COUNt:TX?

:SOURce:DATA:TELeom:ETHernet:PINJection:MAC:DESTination:ADDRes

Description	This command sets the destination MAC address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address
Syntax	:SOURce:DATA:TELeom:ETHernet:PINJection:MAC:DESTination:ADDRes <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the destination MAC address.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR 11:11:11:11:11:11 SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR? Returns: 11:11:11:11:11:11
See Also	SOURce:DATA:TELeom:ETHernet:PINJection:MAC:DESTination:ADDRes:ENABLe

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDReSS:ENABle	
Description	This command enables the MAC destination address field. At *RST condition, this value is set to OFF. Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address (checkbox)
Syntax	:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDReSS:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB ON SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDReSS

:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRes:ENABLE?

Description	This query returns the MAC destination address field. At *RST condition, this value is set to OFF. Navigation Path: Results > Traffic > Pause Injection > Destination Mac Address (checkbox)
Syntax	:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRes:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB ON SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRes?

:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRes?	
Description	This query returns the destination MAC address. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRes?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination MAC address value.
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR 11:11:11:11:11:11 SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR? Returns: 11:11:11:11:11:11
See Also	SOURce:DATA:TELEcom:ETHernet:PINJection:MAC:DESTination:ADDRes:ENABle?

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:COUnT?

Description	This query returns the traffic Responder function counts received frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > Responder > Rx Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:COUnT? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of responder frame type. LBM LTM DMM LMM SLM
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder Rx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:RX:COUnT? LBM
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:LTR:TIMeout?

SCPI Command Reference

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:TOTal?	
Description	This query returns the traffic Responder function Total received frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > Responder > Rx Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder total received frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:RX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:STATus?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPonder:TX:COUNT?

Description	This query returns the traffic Responder counts transmitted frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > Responder > Tx Count
Syntax	:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPonder:TX:COUNT? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of responder frame type. LBR LTR DMR LMR SLR
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder Tx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:TX:COUNT? LBR
See Also	FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESult:RX:LTR?

SCPI Command Reference

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPonder:TX:TOTal?	
Description	This query returns the traffic Responder function Total transmitted frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > Responder > Tx Total
Syntax	:FETCh:DATA:TELEcom:SOAM:TRAFfic:RESPonder:TX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder total transmitted frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:TX:TOTal?
See Also	FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESUlt:INValid:LTR?

:FETCh:DATA:TELEcom:SOAM:TRAFfic:RX:COUNT?

Description	This query returns the traffic monitoring function counts received frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > RX Count
Syntax	:FETCh:DATA:TELEcom:SOAM:TRAFfic:RX:COUNT? <wsp><type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of frame type. AIS CCM CSF DMR LBR LCK LMR LTR SLR TST
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Rx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RX:COUNT? LBR
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:MAXimum:DElay:VERD?

SCPI Command Reference

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:TOTal?	
Description	This query returns the traffic monitoring function Total received frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > RX Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the total received frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?

:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:COUnT?

Description	This query returns the traffic monitoring function counts transmitted frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > TX Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:COUnT? <wsp> <type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of frame: AIS CCM CSF DMM LBM LCK LMM LTM SLM TST
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Tx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:TX:COUnT? LBM
See Also	FETCh:DATA:TELecom:SOAM:FDElay:AVERage:DElay?

SCPI Command Reference

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:TOTal?	
Description	This query returns the traffic monitoring function Total transmitted frames. At *RST condition, this value is device dependent. Navigation Path:Test > Results > Traffic > S-OAM > TX Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the total transmitted frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:TX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult?

Traffic - Path OAM

:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:RX:DM M:COUNT?	
Description	This query returns the FlexE Path OAM Responder function RX 2DMM count. At *RST condition, this value is device dependent. Navigation Path: Results > Traffic > Path OAM > Responder 2DMM RX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:RX:DMM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the RX 2DMM count
Example(s)	FETC:DATA:TEL:FETH:POAM:RESP:RX:DMM:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELaY:RX:DMR:COUNT?

:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:TX:DMR:COUNT?	
Description	This query returns the FlexE Path OAM Responder function TX 2DMR count At *RST condition, this value is device dependent. Navigation Path: Results > Traffic > Path OAM > Responder - 2DMR TX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:TX:DMR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX 2DMR count
Example(s)	FETC:DATA:TEL:FETH:POAM:RESP:TX:DMR:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELaY:TX:DMM:COUNT?

FTFL/PT

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODE:RECeived?

Description	This query returns the corresponding received payload type code for OTU1e/2e rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Code - Received
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODE:RECeived?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received payload code.
Example(s)	FETC:DATA:TEL:OTN:OPU1:E:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?	
Description	This query returns the received payload signal type to be generated for OTU1e/2e rate. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received payload type.
Example(s)	FETC:DATA:TEL:OTN:OPU1:E:PTYP:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODE:RECeived?

Description	This query returns the corresponding received payload type code. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU 1/2F > Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODE:RECeived?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received payload code.
Example(s)	FETC:DATA:TEL:OTN:OPU1:F:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?	
Description	This query returns the received payload signal type to be generated. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU 1/2 F > Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?
Response Syntax	<Payload>
Response(s)	Payload: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received payload type.
Example(s)	FETC:DATA:TEL:OTN:OPU1:F:PTYP:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived?

Description	This query returns the received Payload Type code. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSE:DATA:TELecom:OTN:OPU[1..n]:CHANnel. In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSE:DATA:TELecom:OTN:ODU[1..n]:CLient
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived?
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received Payload Type Code.
Example(s)	OTN BERT: FETC:DATA:TEL:OTN:OPU1:PCOD:REC? For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:CHAN 2 FETC:DATA:TEL:OTN:OPU100:PCOD:REC? For FlexO BERT: SENS:DATA:TEL:OTN:OPU101:CLI 2 FETC:DATA:TEL:OTN:OPU101:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived? For Multi-Channel OTN: SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel SENSeDATA:TELecom:OTN:OPU[1..n]:CHANnel? For FlexO BERT: SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?	
Description	This query returns the received Payload Type. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?
Response Syntax	<Payload Type>

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

Response(s)	Payload Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received Payload Type. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYNch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2
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:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

Response(s)	IBDRMAPPING: IB DDR mapping into ODUflex IBQDRMAPPING: IB QDR mapping into ODUflex IBSDRMAPPING: IB SDR mapping into ODUflex NAVailable: Not available NULLtest: NULL test signal mapping OC12STM4ODU0: OC12/STM-4 into ODU0 OC3STM1ODU0: OC3/STM-1 into ODU0 ODUODTUCNTS: ODU multiplex with ODTUCn.ts ODUODTUJK: ODU multiplex with ODTUjk ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk PCSCODEWORD: PCS Codeword transparent Ethernet PRBStest: PRBS test signal mapping RFSTandard: Reserved for international standardization RPRopriet: Reserved codes for proprietary use SBCONESCONOPU0: SBCON/ESCON mapping into OPU0 SDIMAPPING: SDI mapping into OPU0 VCONcate: Virtual Concatenated signal
Example(s)	OTN BERT: FETC:DATA:TEL:OTN:OPU1:PTYP:REC? For Multi-Channel OTN: SENS:DATA:TEL:OTN:OPU100:CHAN 2 FETC:DATA:TEL:OTN:OPU100:PTYP:REC? For FlexO BERT: SENS:DATA:TEL:OTN:OPU101:CLI 2 FETC:DATA:TEL:OTN:OPU101:PTYP:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODE:RECeived? For Multi-Channel OTN: SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel For FlexO BERT: SENSe:DATA:TELecom:OTN:OPU[1..n]:CLlent SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Fault Indication Forward/Backward Code. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Code NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FTFL Fault Indication Code.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW
See Also	SENSe:DATA:TELeom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?	
Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Forward/Backward Operator Identifier. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Identifier NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier? <wsp> <FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Fault Indication Forward/Backward message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUUn > FTFL > Forward/Backward Fault Indication NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received FTFL Fault Indication message: NFAULT: No Fault SFAIL: Signal Fail SDEGRADE: Signal Degrade RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific?	
Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Forward/Backward Operator Specific. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Specific NOTE: For :E[1..n];, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Specific>
Response(s)	Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:SPEC? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?	
Description	This query returns the received ODU1f/2f FTFL Fault Indication Forward/Backward Code. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU_n > FTFL > Forward/Backward Code
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FTFL Fault Indication Code.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:IDENtifier?	
Description	This query returns the received ODU1f/2f FTFL Forward/Backward Operator Identifier. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU_n > FTFL > Forward/Backward Operator Identifier
Syntax	:SENSe:DATA:TELEcom:OTN:ODU[1..n]:F:FTFL:IDENtifier? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELEcom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Description	This query returns the received ODU1f/2f FTFL Fault Indication Forward/Backward message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU_n > FTFL > Forward/Backward Fault Indication
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication? <wsp> <FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received FTFL Fault Indication message: NFAULT: No Fault SFAIL: Signal Fail SDEGRADE: Signal Degrade RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific?	
Description	This query returns the received ODU1f/2f FTFL Forward/Backward Operator Specific. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Specific
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Specific>
Response(s)	Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:SPEC? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

Description	This query returns the FTFL Fault Indication Forward/Backward Code. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Fault Indication Code
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	Ftfl: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FTFL Fault Indication code.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?	
Description	This query returns the FTFL Forward/Backward Operator Identifier. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Operator Identifier
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Identifier>
Response(s)	Identifier: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

Description	This query returns the FTFL Forward/Backward Fault Identification message. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Fault Indication
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Indication>
Response(s)	Indication: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the received FTFL Fault Indication message: NFAULT: No Fault SFAIL: Signal Fail SDEGRADE: Signal Degrade RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific?	
Description	This query returns the FTFL Forward/Backward Operator Specific. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Operator Specific
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Forward or Backward: FORWard BACKward
Response Syntax	<Operator Specific>
Response(s)	Operator Specific: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:SPEC? FORWard
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel

Description	This command forces the Payload Type commands/queries to be applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > ODU Channels > PT >Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel <wsp> <AllChannel>
Parameter(s)	AllChannel: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects if the Payload Type commands/queries are applied on all channels (ON) or a single channel (OFF).
Response Syntax	<Operator Specific>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA ON SENS:DATA:TEL:OTN:OPU100:ACHA OFF
See Also	SENS:DATA:TEL:OTN:OPU100:CHAN? SENS:DATA:TEL:OTN:OPU100:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel?	
Description	This query returns if the Payload Type commands/queries are applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test. At *RST condition, this value is set to OFF. Navigation Path: Setup > ODU Channels > PT >Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHannel?
Response Syntax	<AllChannel>
Response(s)	AllChannel: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns an indication that the Payload Type commands/queries are to be applied on all channels. 1, OPU Payload Type commands/queries are applied on all channels. 0, OPU Payload Type commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:OPU[1..n]:CHAN.
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA?
See Also	SENS:DATA:TEL:OTN:OPU100:ACHA SENS:DATA:TEL:OTN:OPU100:CHAN

:SENSe:DATA:TELeom:OTN:OPU[1..n]:CHANnel

Description	This command sets the value of the channel used by the Payload Type for Multi-Channel OTN test. When setting a channel value, the following command is set to OFF: SENSe[1..n]:DATA:TELeom:OTN:OPU[1..n]:ACHannel At *RST condition, this value is set to 1. Navigation Path: Results > PT > ODUk > Channel
Syntax	:SENSe:DATA:TELeom:OTN:OPU[1..n]:CHANnel <wsp><Channel Number>
Parameter(s)	Channel Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Global parameter, applicable to Multi-Channel OTN Selects the channel number.
Response Syntax	<AllChannel>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA? Returns: 1 SENS:DATA:TEL:OTN:OPU100:CHAN 2 SENS:DATA:TEL:OTN:OPU100:ACHA? Returns: 0
See Also	SENSe:DATA:TELeom:OTN:OPU[1..n]:CHAN? SENSe:DATA:TELeom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?	
Description	This query returns the value of the channel number used by the Payload Type, when command AllCHAnnel is 'OFF', for Multi-Channel OTN test. At *RST condition, this value is set to 1. Navigation Path: Results > PT > ODUk > Channel
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number>
Response(s)	Channel Number: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number used for the Payload Type, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN test application.
Example(s)	SENS:DATA:TEL:OTN:OPU100:CHAN?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx

Description	This command copies the received Payload Type to the expected Payload Type. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type NOTE: In Multi-Channel OTN, when copying an OPU LO Payload Type, the channel must be set using SENS:DATA:TEL:OTN:OPU[1..n]:CHAN. The Payload Type can also be copied on all channels by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHA.
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPIRx	
Description	This command sets the copy Rx to instrument for OTU1e/2e rate. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPIRx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPIYrx

Description	This command sets the copy Rx to instrument for OTU1f/2f rate. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPIYrx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:COPIY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPIY

OTL-SDT

:FETCh:DATA:TELEcom:OTL:SDT:AVERage?	
Description	This query returns the average disruption time FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELEcom:OTL:SDT:AVERage? <wsp> <LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:AVER? 1
See Also	FETCh:DATA:TELEcom:OTL:SDT:LAST?

:FETCh:DATA:TELecom:OTL:SDT:COUNt?

Description	This query returns the disruption count FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:COUNt? <wsp><LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of service disruption counts that happened since the beginning of the SDT test for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:COUN? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LAST?

:FETCh:DATA:TELecom:OTL:SDT:DEFeCt?	
Description	This query returns the layer on which service disruption time test isperformed for OTN. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption > Defect
Syntax	:FETCh:DATA:TELecom:OTL:SDT:DEFeCt?
Response Syntax	<Defect>
Response(s)	Defect: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the layer on which service disruption time test isperformed for OTN for OTL-SDT.
Example(s)	FETC:DATA:TEL:OTL:SDT:DEF?
See Also	FETCh:DATA:TELecom:SDT:DEFeCt?

:FETCh:DATA:TELeom:OTL:SDT:LANE:DISRuption?

Description	This query returns the number of lane with disruption At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELeom:OTL:SDT:LANE:DISRuption?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the lanes with disruption
Example(s)	FETC:DATA:TEL:OTL:SDT:LANE:DISR?
See Also	FETCh:DATA:TELeom:OTL:SDT:SHORTest?

:FETCh:DATA:TELecom:OTL:SDT:LAST?	
Description	This query returns the last disruption time FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LAST? <wsp><LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the last disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:LAST? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:SHORtest?

:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRruption:DURation?

Description	This query returns the longest disruption duration At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRruption:DURation?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the longest disruption duration
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG:DISR:DUR?
See Also	FETCh:DATA:TELecom:OTL:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRUption:LANE?	
Description	This query returns the longest disruption lane At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRUption:LANE?
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the longest disruption lane
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG:DISR:LANE?
See Also	FETCh:DATA:TELecom:OTL:SDT:SHORTest?

:FETCh:DATA:TELeom:OTL:SDT:LONGest?

Description	This query returns the longest disruption time FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELeom:OTL:SDT:LONGest? <wsp> <LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Longest>
Response(s)	Longest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the longest disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG? 1
See Also	FETCh:DATA:TELeom:SDT:LONGest?

:FETCh:DATA:TELEcom:OTL:SDT:SHORtest?	
Description	This query returns the shortest disruption time FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELEcom:OTL:SDT:SHORtest? <wsp> <LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Shortest>
Response(s)	Shortest: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the shortest disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:SHOR? 1
See Also	FETCh:DATA:TELEcom:OTL:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SDT:STATistics?

Description	This query returns the STATISTICS FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:STATistics?
Response Syntax	<Statistics>
Response(s)	Statistics: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the statistics.
Example(s)	FETC:DATA:TEL:OTL:SDT:STAT?
See Also	FETCh:DATA:TELecom:SDT:SHORTest?

:FETCh:DATA:TELecom:OTL:SDT:TOTal?	
Description	This query returns the total disruption time FOR OTL. At *RST condition, this value is device dependent. Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:TOTal? <wsp> <LaneNo>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane ID.
Response Syntax	<Total>
Response(s)	Total: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:TOT? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LONGest?

GFP-F/GFP-T

:FETCh:DATA:TELecom:GFP:CHANnel:MISMatch:COUNT?

Description	This query returns the number of frames with fields not matching the Payload Frame Check Sequence identifier. At *RST condition, this value is device-dependent. Navigation Results > GFP-F/GFP-T > RX Mismatch
Syntax	:FETCh:DATA:TELecom:GFP:CHANnel:MISMatch:COUNT? <wsp> <Identifier>
Parameter(s)	Identifier: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the RX Mismatch identifier. PFIMIS: FPI mismatch
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns count of frames for field not matching the Payload FCS Indicator.
Example(s)	FETC:DATA:TEL:GFP:CHAN:MISM:COUN? PFIMIS
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

:FETCh:DATA:TELeom:GFP:OVERview:BANDwidth:RX?	
Description	This query returns the Bandwidth usage of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Bandwidth Usage(%) > RX Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Bandwidth Usage(%) > RX
Syntax	:FETCh:DATA:TELeom:GFP:OVERview:BANDwidth:RX?
Response Syntax	<RX>
Response(s)	RX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Bandwidth Percentage of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:BAND:RX?
See Also	FETCh:DATA:TELeom:GFP:OVERview:EFFiciency:TX?

:FETCh:DATA:TELEcom:GFP:OVERview:BANDwidth:TX?

Description	This query returns the Bandwidth usage of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Bandwidth Usage(%) > TX Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Bandwidth Usage(%) > TX
Syntax	:FETCh:DATA:TELEcom:GFP:OVERview:BANDwidth:TX?
Response Syntax	<TX>
Response(s)	TX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Bandwidth Percentage of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:BAND:TX?
See Also	FETCh:DATA:TELEcom:GFP:OVERview:EFFiciency:RX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNT:RX?	
Description	This query returns the count of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > RX > Count Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > RX > Count
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:COUNT:RX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Count of the Received Frames and Bytes. DFRames MFRames IFRames TFRames RPTiframes RPLiframes INVFrames DISFrames DBYTESFORRX MBYTESFORRX IBYTESFORRX TBYTESFORRX RPTBYTESFORRX DATBYTESFORRX
Response Syntax	<Frames>

:FETCh:DATA:TELecom:GFP:OVERview:COUnT:RX?

Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Count of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:COUN:RX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?	
Description	This query returns the count of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > TX > Count Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > TX > Count
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Count of the Trasmitted Frames and Bytes. DFRames MFRames IFRames TFRames DBYTESFORTX MBYTESFORTX IBYTESFORTX TBYTESFORTX DATBYTESFORTX
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Count of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:COUN:TX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?

:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

Description	This query returns the Mapping Efficiency of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Mapping Efficiency (%) > RX Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Mapping Efficiency (%) > RX
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?
Response Syntax	<RX>
Response(s)	RX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Mapping Efficiency Percentage of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:EFF:RX?
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELeom:GFP:OVERview:EFFiciency:TX?	
Description	This query returns the Mapping Efficiency of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Mapping Efficiency (%) > TX Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Mapping Efficiency (%) > TX
Syntax	:FETCh:DATA:TELeom:GFP:OVERview:EFFiciency:TX?
Response Syntax	<TX>
Response(s)	TX: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Mapping Efficiency Percentage of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:EFF:TX?
See Also	FETCh:DATA:TELeom:GFP:OVERview:BANDwidth:RX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

Description	This query returns the rate of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > RX > Rate(Unit/s) Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > RX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Rate of the Received Frames and Bytes. DFRames MFRames IFRames TFRames RPTiframes RPLiframes INVFrames DISFrames DBYTESFORRX MBYTESFORRX IBYTESFORRX TBYTESFORRX RPTBYTESFORRX DATBYTESFORRX
Response Syntax	<Frames>

:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?	
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Rate of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:RATE:RX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

Description	This query returns the rate of frames or payload bytes. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > TX > Rate(Unit/s) Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > TX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Rate of the Trasmitted Frames and Bytes. DFRames MFRames IFRames TFRames DBYTESFORTX MBYTESFORTX IBYTESFORTX TBYTESFORTX DATBYTESFORTX
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Rate of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:RATE:TX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:RX?

Description	This query returns the count of frames or payload bytes for superblock. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > RX > Count
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:RX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects type of the Received Frames and Bytes for superblock. SUPERBLOCKVALID SUPERBLOCKINVALID SUPERBLOCKTOTAL
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Count of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:COUN:RX? SuperblockTotal
See Also	FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

:FETCh:DATA:TELEcom:GFP:SUPerblock:COUNt:TX?

Description	This query returns the count of frames or payload bytes for superblock. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > TX > Count
Syntax	:FETCh:DATA:TELEcom:GFP:SUPerblock:COUNt:TX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects type of the Trasmitted Frames and Bytes for superblock. SUPERBLOCKINVALID superblockTotal
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Count of Trasmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:COUN:TX? SUPERBLOCKTOTAL
See Also	FETCh:DATA:TELEcom:GFP:OVERview:COUNt:RX?

:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:RX?	
Description	This query returns the rate of frames or payload bytes for superblock. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > RX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:RX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects type of the Received Frames and Bytes for superblock. SUPERBLOCKVALID SUPERBLOCKINVALID SUPERBLOCKTOTAL
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Rate of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:RATE:RX? SuperblockTotal
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:TX?

Description	This query returns the rate of frames or payload bytes for superblock. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > TX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:TX? <wsp><Frames>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects type of the Trasmitted Frames and Bytes for superblock. SUPERBLOCKINVALID
Response Syntax	<Frames>
Response(s)	Frames: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Rate of Trasmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:RATE:TX? SUPERBLOCKTOTAL
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

:SENSe:DATA:TELecom:GFP:FRAMe:MISMatch:COUNT?	
Description	This query returns the number of frames with fields not matching the expected EXI, UPI, and CID. At *RST condition, this value is device dependent. Navigation Path: Results > GFP-F/GFP-T > RX Mismatch
Syntax	:SENSe:DATA:TELecom:GFP:FRAMe:MISMatch:COUNT? <wsp><Mismatch>
Parameter(s)	Mismatch: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the RX Mismatch identifier. CIDMIS: CID mismatch EXIMIS: EXI mismatch UPIMIS: UPI mismatch
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count.
Example(s)	SENS:DATA:TEL:GFP:FRAM:MISM:COUN? EXIMIS
See Also	SOURce:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuuous?

Streams - Throughput

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict?

Description	This query returns the average RX Rate throughput verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Average verdict Navigation Path: Results > Streams > Throughput > RX Rate - Average verdict Navigation Path: Results > Service Performace > RX Rate - Average verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional Selects the direction LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Average Throughput Verdict Status
Example(s)	FETC:DATA:TEL:ETH:STR:THR:AVER:VERD? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict? 1, COUNT

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:AVERage?	
Description	This query returns the average RX Rate throughput. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Average Navigation Path: Results > Streams > Throughput > RX Rate - Average Navigation Path: Results > Service Performace > RX Rate - Average
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:AVERage? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:AVER? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:CURRent?

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?

Description	This query return the total RX Rate throughput. At *RST condition, this value is device dependent. Navigation Path: Results > Stream > Throughput > Total RX Rate
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?
Response Syntax	<Total Rx Rate>
Response(s)	Total Rx Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Total Rx rate value
Example(s)	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent?

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:VERDict?	
Description	This query returns the current RX Rate throughput verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Current verdict Navigation Path: Results > Streams > Throughput > RX Rate - Current verdict Navigation Path: Results > Service Performace > RX Rate > Current verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional Selects the direction LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Current Throughput Verdict Status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:CURR:VERD? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict? 1

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent?

Description	This query returns the current RX Rate throughput. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Current Navigation Path: Results > Stream > Throughput > RX Rate - Current Navigation Path: Results > Service Performace > RX Rate - Current
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:CURRent? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the current throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:CURR? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:AVERage?

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MAXimum?	
Description	This query returns the maximum RX Rate throughput. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Maximum Navigation Path: Results > Stream > Throughput > RX Rate - Maximum Navigation Path: Results > Service Performace > RX Rate - Maximum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MAXimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum throughput
Example(s)	FETC:DATA:TEL:ETH:STR:THR:MAX? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MINimum?	
Description	This query returns the minimum RX Rate throughput. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > RX Rate - Minimum Navigation Path: Results > Stream > Throughput > RX Rate - Minimum Navigation Path: Results > Service Performace > RX Rate - Minimum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:MIN? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum?

Streams - Jitter

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVErAge?	
Description	This query returns the average measured Jitter delay variation. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Average Navigation Path: Results > Streams > Jitter - Average. Navigation Path: Results > Service Performace > Jitter - Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVErAge? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:AVER? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THROUGHput:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

Description	This query returns the current measured Jitter delay variation. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Current Navigation Path: Results > Streams > Jitter - Current Navigation Path: Results > Service Performace > Jitter - Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local <Current>
Response Syntax	
Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:CURR? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:JITter:ESTimate?	
Description	This query returns the estimate measured Jitter delay variation. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Estimate Navigation Path: Results > Streams > Jitter - Estimate Navigation Path: Results > Service Performance > Jitter - Estimate
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITter:ESTimate? <wsp> <Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Estimated>
Response(s)	Estimated: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the estimated of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:EST? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Description	This query returns the Maximum Jitter verdict status. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Maximum verdict Navigation Path: Results > Streams > Jitter - Maximum verdict Navigation Path: Results > Service Performace > Jitter - Maximum verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional Selects the direction LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the maximum Jitter Verdict Status PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MAX:VERD? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THROUGHput:CURRent:VERDict? 1

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum?	
Description	This query returns the maximum measured Jitter delay variation. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Maximum Navigation Path: Results > Streams > Jitter - Maximum Navigation Path: Results > Service Performace > Jitter - Maximum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MAXimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the maximum measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MAX? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MINimum?

:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum?

Description	This query returns the minimum measured Jitter delay variation. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Jitter - Minimum Navigation Path: Results > Streams > Jitter - Minimum Navigation Path: Results > Service Performance > Jitter - Minimum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:JITTer:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the minimum measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MIN? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:THRoughput:MAXimum?

Streams - Latency

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVERage?	
Description	This query returns the average measured Latency in ms. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Latency - Average Navigation Path: Results > Streams > Latency - Average Navigation Path: Results > Service Performace > Latency - Average Navigation Path: Results > Summary > Latency - Average
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:AVERage? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. For EtherBERT, selects the stream 1. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction for Dual Test Set. Not used with EtherBERT. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the average latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:AVER? 1
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?

:FETCh:DATA:TELecom:ETHerNet:STReam:LATency:CURRent?

Description	This query returns the current measured Latency in ms. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Latency - Current Navigation Path: Results > Streams > Latency - Current Navigation Path: Results > Service Performace > Latency - Current Navigation Path: Results > Summary > Latency - Current
Syntax	:FETCh:DATA:TELecom:ETHerNet:STReam:LATency:CURRent? <wsp> <Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. For EtherBERT, selects the stream 1. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction for Dual Test Set. Not used with EtherBERT. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current latency.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:CURR? 1
See Also	FETCh:DATA:TELecom:ETHerNet:ERRor:SANalyzer:COUNT?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimu m:VERDict?	
Description	This query returns the maximum measured Latency verdict status. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Latency - Maximum verdict Navigation Path: Results > Streams > Latency - Maximum verdict Navigation Path: Results > Service Performace > Latency - Maximum verdict Navigation Path: Results > Summary > Latency - Maximum - verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXimum:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. For EtherBERT, selects the stream 1. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction for Dual Test Set. Not used with EtherBERT. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Maximum Latency Verdict Status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MAX:VERD? 1
See Also	FETCh:DATA:TELEcom:ETHernet:STReam:FLOsS:VERDict? 1, RATE

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXImum?	
Description	This query returns the maximum measured Latency in ms. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Latency - Maximum Navigation Path: Results > Streams > Latency - Maximum Navigation Path: Results > Service Performace > Latency - Maximum Navigation Path: Results > Summary > Latency - Maximum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MAXImum? <wsp> <Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. For EtherBERT, selects the stream 1. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction for Dual Test Set. Not used with EtherBERT. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the maximum latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MAX? 1
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum?	
Description	This query returns the minimum measured Latency in ms. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Latency - Minimum Navigation Path: Results > Streams > Latency - Minimum Navigation Path: Results > Service Performace > Latency - Minimum Navigation Path: Results > SUMmary > Latency - Minimum
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:LATency:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. For EtherBERT, selects the stream 1. Direction: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction for Dual Test Set. Not used with EtherBERT. (For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction) LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the mimum latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MIN? 1
See Also	FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:CURRent?

Streams - Frame Loss / Out-of-Sequence

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUNT?

Description	This query returns the count of Frame Loss / Out-of-Sequence. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Frame Loss - Count Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Count Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Count
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:COUNT? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream number from 1 to 16. For EtherSAM, selects the service number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction. For non-DTS use LTOR as direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Count>

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:COUN? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURREnt?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Description	This query returns the current status of Frame Loss / Out-of-Sequence. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Frame Loss current status Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence current status Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence current status
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent? <wsp><Tgen>, <Error>,[<Direction>]
Parameter(s)	Tgen: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream number from 1 to 16. For EtherSAM, selects the service number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOsS: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction. For non-DTS use LTOR as direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:CURR? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory?

Description	This query returns the history status of Frame Loss / Out-of-Sequence. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Frame Loss - Count Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence history status Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence history status
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:HISTory? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream number from 1 to 16. For EtherSAM, selects the service number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOsS: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction. For non-DTS use LTOR as direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHerneT:ERRor:SANalyzer:HISTory?

Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history error status: PRESENT: At least one error has occurred during the test. ABSENT: No error has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:HIST? 1, FLOs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE?

Description	This query returns the rate of Frame Loss / Out-of-Sequence. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Frame Loss - Rate Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Rate Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Rate
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:RATE? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream number from 1 to 16. For EtherSAM, selects the service number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOSSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction. For non-DTS use LTOR as direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:RATE? 1, FLOSS
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds?	
Description	This query returns the Seconds of Frame Loss / Out-of-Sequence. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Frame Loss - Seconds Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Seconds Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Seconds
Syntax	:FETCh:DATA:TELEcom:ETHernet:ERRor:SANalyzer:SEConds? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream number from 1 to 16. For EtherSAM, selects the service number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FLOSSs: Frame Loss OUTSequence: Out-of-Seq. Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the direction. For non-DTS use LTOR as direction. LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:SEC? 1, FLOSS
See Also	FETCh:DATA:TELEcom:EOTN:ERRor:PHYSical:COUNT?

:FETCh:DATA:TELEcom:ETHernet:STReam:FLOSS:VERDict?

Description	This query returns the Frame Loss Count/Rate verdict status At *RST condition, this value is device dependent. Navigation Path: Results > Summmary > Stream > Frame Loss verdict Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence > Frame Loss verdict Navigation Path: Results > Service Performace > Frame Loss verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:FLOSS:VERDict? <wsp><Stream/Service>,<Type>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Frameloss Type. COUNT RATE Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional Selects the direction LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>

:FETCh:DATA:TELecom:ETHernet:STReam:FLOs:VERDict?

Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Loss Verdict Status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:FLOS:VERD? 1, RATE
See Also	FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict? 1

:FETCh:DATA:TELEcom:ETHernet:STReam:OOSeQuence:VERDict?

Description	This query returns the Out Of Sequence Count/Rate verdict status At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Stream > Out-of-Sequence verdict Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence > Out-of-Sequence verdict Navigation Path: Results > Service Performace > Out-of-Sequence verdict
Syntax	:FETCh:DATA:TELEcom:ETHernet:STReam:OOSeQuence:VERDict? <wsp><Stream/Service>,<Type>,[<Direction>]
Parameter(s)	Stream/Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. For Traffic Gen & Mon, selects the stream from 1 to 16. For EtherSAM, selects the Service number 1 to 10. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Frameloss Type. COUNT RATE Direction: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional Selects the direction LTORemote: Local to Remote RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>

:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERD
ict?

Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Out Of Sequence Verdict Status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:OOS:VERD? 1, COUNT
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict? 1

Quality Level (1588 PTP)

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:MESSege:COUNT?	
Description	This query returns the count of each Quality Level message Navigation Path: Results > Quality Level > count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:QL:MESSege:COUNT? <wsp><Message Count>

:FETCh:DATA:TELeom:PACKetsync:PTP:QL:MESSeGe:COUNT?

Parameter(s)	Message Count: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Configure an Expected Quality Level value. QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC:QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization QLPRCPRS6: QL-PRC/PRS PRS traceable (Recommendation G.811). QLPRCPRS7: QL-PRC/PRS PRS traceable (Recommendation G.811). QLPRCPRS135: QL-PRC/PRS PRS traceable (Recommendation G.811). QLPRCPRS140: QL-PRC/PRS PRS traceable (Recommendation G.811). QLSSUAST2: QL-SSU-A/ST2 Traceable to Stratum 2 (Recommendation G.812, Type II). QLSSUBST3E: QL-SSU-B/ST3E Traceable to Stratum 3E (Recommendation G.812, Type III). QLSECEEC1ST3EEC2165: For use by alternate PTP profiles QLSECEEC1ST3EEC2248: Default. This clockClass shall be used if none of the other clockClass definitions apply QLSECEEC1ST3EEC2255: Shall be the clockClass of a slave-only clock
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:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt?	
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of each Quality Level message
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:MESS:COUN? QLPRC
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?	
Description	This query returns the count of other values of Quality Level message. Navigation Path: Results > Quality Level > Other
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of other QL codes.
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:OTH?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:TOTal?

Description	This query returns the total of Quality Level messages. Navigation Path: Results > Quality Level > Total
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:TOTal?
Response Syntax	<Total>
Response(s)	Total: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total of Quality Level messages
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:TOT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:RX:DELaY:RESPOnse:COUnT?

Quality Level (SyncE)

:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLRX:EVENT?

Description	This query returns the RX Event At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Event
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLRX:EVENT? <wsp><QLRX>
Parameter(s)	QLRX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Configure an Expected Quality Level value. QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization
Response Syntax	<Event>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENT?

Response(s)	Event: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns RX Event
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLRX:EVEN? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENT?

:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLRX:INFormation?	
Description	This query returns the RX Information At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Information
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLRX:INFormation? <wsp><QLRX>
Parameter(s)	QLRX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Quality Level/PTP Clock Class QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization
Response Syntax	<Information>

:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLRX:INFormation?

Response(s)	Information: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns RX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLRX:INF? QLSTUUNK
See Also	SENSe:DATA:TELeom:PACKetsync:SYNCe:QLTX:INFormation?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENT?

Description	This query returns the QLTX Event At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Quality Level > QL > QLTX Event
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENT? <wsp><QLTX>
Parameter(s)	QLTX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Configure an Expected Quality Level value. QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization
Response Syntax	<Event>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENT?

Response(s)	Event: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns QLTX Event
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLTX:EVEN? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENT?

:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLTX:INFormation?	
Description	This query returns the QLTX Information At *RST condition, this value is set to device-dependent. Navigation Path: Test App > SyncE > Results > Quality Level > QL > QLTX Information
Syntax	:SENSe:DATA:TELeom:PACKetsync:SYNCe:QLTX:INFormation? <wsp><QLTX>
Parameter(s)	QLTX: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Quality Level/PTP Clock Class QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811) QLSTUUNK: QL-STU/UNK 82 Synchronized QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811) QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II) QLINV3: QL-INV3 88 Quality Level Invalid 3 QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812) Traceable to Transit Node Clock (G.812 Type V) QLINV5: QL-INV5 92 Quality Level Invalid 5 QLINV6: QL-INV6 94 Quality Level Invalid 6 QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812) QLINV9: QL-INV9 98 Quality Level Invalid 9 QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III) QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV) QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1) QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2) QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO) QLDNUDUS: QL-DNU/DUS 110 Do Not Use Do Not Use for Synchronization
Response Syntax	<Information>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

Response(s)	Information: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns QLTX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLTX:INF? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Service Configuration - Ramp

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXR ate:VERDict?	
Description	This Query returns Ramp Test Avg. Rx Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Average RX Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict? <wsp><Service>,<Direction>,<Step>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the step: 1, 2, 3, 4, 5, 6, 7 CIREIR: CIR+EIR TRAFFICPOLicing: Traffic Policing
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXR
ate:VERDict?

Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict? 1, LTOR,CIREIR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXR ate?	
Description	This Query returns Ramp Test Avg. Rx Rate Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Average RX Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXR

ate?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR CIREIR TRAFFICPOLicing
Response Syntax	<Average RX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXR ate?	
Response(s)	Average RX Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Ramp Test Avg. Rx Rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:GLOB:TDURation:EST?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:FLOsS:VERDict?

Description	This Query returns Ramp Test Frame Loss Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:FLOsS:VERDict? <wsp><Service>,<Direction>,<Step>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSS:VERDict?

Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSS:VERDict? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEfault

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs?

Description	This Query returns Ramp Test Frame Loss Statistics Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSS?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR CIREIR TRAFFICPOLicing
Response Syntax	<Frame Loss>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOsS?

Response(s)	Frame Loss: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Ramp Test Frame Loss Statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOsS? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:TOT?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Description	This Query returns Ramp Test Max Jitter Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Max Jitter(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR

:FETCh:DATA:TELecom:ETHerneT:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHerneT:ESAM:SCOTest:RAMP:MAXJitter:VERDict? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETHerneT:ESAM:SCOTest:BURSt:FLOSS:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Description	This Query returns Ramp Test Max Jitter Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter? <wsp><Service> , <Direction> , <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR CIREIR TRAFFICPOLicing
Response Syntax	<Max Jitter>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Response(s)	Max Jitter: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Ramp Test Max Jitter
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:SPRTTest:DUR

:FETCH:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Description	This Query returns Ramp Test Round Trip Latency Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Round Trip Latency(ms)
Syntax	:FETCH:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict? 1, LTOR,1
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

Description	This Query returns Ramp Test Round Trip Latency Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHerNet:ESAM:SCOTest:RAMP:RTLatency?

Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Step: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Step. 1 2 3 4 5 6 7 CIR CIREIR TRAFFICPOLicing
Response Syntax	<Round Trip Latency>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

Response(s)	Round Trip Latency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Ramp Test Round Trip Latency
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:SPRTest:DUR?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Description	This Query returns Ramp Test Tx rate Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > committed Steps > TX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Parameter(s)

Service:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the Service number 1 or 10.

Direction:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
Selects the Direction.
(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
LTORemote: Local to Remote
RTOLocal: Remote to Local
P1TOP2: P1 -TO-P2
P2TOP1: P2 -TO-P1

Step:
The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
Sets the Step.
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Response Syntax

<TX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Response(s)	TX Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Ramp Test Tx rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:TBURst:TIME?

Service Configuration - Burst

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXR
ate:VERDict?

Description	This query returns Average Rx Rate Verdict. Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Average RX Rate (%) Navigation Path: Setup > Ether SAM > Results > Service CONFig > Burst > Excess(EBS) > MAX RX Rate (%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Burst test type as EBS.
Response Syntax	<Verdict>

**:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXR
ate:VERDict?**

Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict? 1, LTOR,EBS
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:ARXR
ate?

Description	This query returns Average RX Rate statistics Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Average RX Rate (%) Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > MAX RX Rate (%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:ARXRate? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS
Response Syntax	<Average RX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXR ate?	
Response(s)	Average RX Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Average RX Rate statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:EBS:TIME?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSt:VERDict?

Description	This query returns Burst Test Frame Loss verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSt:VERDict? <wsp><Service>,<Direction>,<Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Burst test type as CBS.
Response Syntax	<Verdict>

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSS:VERDict?

Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOSS:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:TESTs:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOsS?
?

Description	This query returns Frame Loss statistics Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Frame Loss(%) Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > Frame Loss(%)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:FLOsS? <wsp><Service>,<Direction>,<Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS
Response Syntax	<Frame Loss>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSS? ?

Response(s)	Frame Loss: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame Loss statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSS? 1, LTOR,CBS
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?

:FETCh:DATA:TELeom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Description	This query returns Burst Tst Max Jitter Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > MAX Jitter(ms)
Syntax	:FETCh:DATA:TELeom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Burst test type as CBS.
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Verdict PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Description	This query returns Max Jitter statistics Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > MAX Jitter(ms) Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > MAX Jitter(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter? <wsp> <Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS
Response Syntax	<Max Jitter>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Response(s)	Max Jitter: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Max Jitter statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

Description	This query returns Burst Test Round Trip Latency Verdict Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORremote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Burst test type as CBS.
Response Syntax	<Verdict>
Response(s)	Verdict: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Burst Tst Max Jitter Verdict
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELEcom:ETHernet:ESAM:SPRTest:VERDict? 1, LTOR

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?	
Description	This query returns Round Trip Latency statistics Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Round Trip Latency(ms) Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	Service: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. Direction: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 Burst Size Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS
Response Syntax	<Round Trip Latency>

:FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

Response(s)	Round Trip Latency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Round Trip Latency statistics
Example(s)	FETCh:DATA:TELEcom:ETHernet:ESAM:SCOTest:BURSt:RTLatency? 1, LTOR,CBS
See Also	FETCh:DATA:TELEcom:ETH:ESAM:BURSt:CBS:TIME?

WIS

:SENSe:DATA:TELeom:ETHernet:WIS:PATH:LABel?	
Description	This query returns the path signal label (C2) for WAN. At *RST condition, this value is device dependent. Navigation Path: Results > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SENSe:DATA:TELeom:ETHernet:WIS:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label. UNEQUIPPED, Unequipped path signal label is selected. EQUIPPED, Equipped non-specific path signal label is selected. M10ETHERNET, 10 Gbps ethernet (IEEE 802.3) path signal label is selected. TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:ETH:WIS:PATH:LAB? Returns: EQUIPPED
See Also	SENSe:DATA:TELeom:ETHernet:WIS:PATH:LABel?

:SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

Description	This query returns the path trace string for the WAN Interface Sublayer (WIS) operation. At *RST condition, ASCII is selected as the default type. The type length is device-dependent. Navigation Path: Results > WIS > J0/J1 Trace (10GEWAN)
Syntax	:SENSe:DATA:TELecom:ETHernet:WIS:TRACe? <wsp><Trace>
Parameter(s)	Trace: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the trace. J0 J1
Response Syntax	<String>
Response(s)	String: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the string for the specific path trace.
Example(s)	SENS:DATA:TEL:ETH:WIS:TRAC? J1 Returns: EXFO4GigE
See Also	SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

Labels

:FETCh:DATA:TELEcom:SDHSonet:HOP:PATH:LABel?

Description	This query returns the expected path signal label for the receiver of High Order Path (HOP). At *RST condition, the CONFig is set to a device-dependent value. Navigation Path: Test Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > Sonet/SDH > Labels > STS Path/AU Path > Received
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label for the receiver.
Example(s)	FETC:DATA:TEL:SDHS:HOP:PATH:LAB?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:PATH:LABel

:FETCh:DATA:TELeom:SDHSonet:LOP:PATH:LABel?

Description	This query returns the expected path signal label for receiver of Low Order Path (LOP). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Test Setup > SONET/SDH BERT > Test Configurator > Results > Labels > VT Path/TU Path > Received
Syntax	:FETCh:DATA:TELeom:SDHSonet:LOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label for the receiver.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU FETC:DATA:TEL:SDHS:LOP:PATH:LAB?
See Also	SOURce:DATA:TELeom:SDHSonet:LOPTu:PATH:LABel?

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?	
Description	This query returns the expected path signal label for receiver of Low Order Path (LOP-TU3). At *RST condition, the configuration is set to a device-dependent value. Navigation Path: Test Setup > SONET/SDH BERT > Test Configurator > Results > Labels > VT Path/TU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?
Response Syntax	<Label>
Response(s)	Label: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the path signal label for the receiver.
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU FETC:DATA:TEL:SDHS:LOPT:PATH:LAB?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

PTP Stats

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:AVERage?

Description	This query returns the Current Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request). Navigation Path: Results > PTP Stats > IPDV > Average(ms)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:AVERage? <wsp> <Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV. SYNCIPDV DELAYREQIPDV
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Current Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:AVER? DELAYREQIPDV
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:TX:SYNC:REQUest:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:CURRent?	
Description	This query returns the Current Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request). Navigation Path: Results > PTP Stats > IPDV > Currunt(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:CURRent? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV. SYNCIPDV DELAYREQIPDV
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Current Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:CURR? DELAYREQIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQUest:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:IPDV:MAXimum:VERDict?

Description	This query returns the Status of IPDV Maximum Sync/Delay Req Verdict. At *RST condition, this value is device dependent. Navigation Path: Test > 1588PTP > Results > PTP Stats > IPDV > Maximum
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:IPDV:MAXimum:VERDict? <wsp><TYPE>
Parameter(s)	TYPE: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects IPDV Type. SYNCIPDV: IPDV Type DELAYREQIPDV: IPDV Type
Response Syntax	<Verdict Status>
Response(s)	Verdict Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Status of IPDV Maximum Sync/Delay Req Verdict
Example(s)	FETCh:DATA:TEL:PACK:PTP:IPDV:MAX:VERDict? DELAYREQIPDV
See Also	SOURce:DATA:TELeom:PACKetsync:PTP:IPDV:THReshold?

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:MAXimum?	
Description	This query returns the Maximum Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request). Navigation Path: Results > PTP Stats > IPDV > Maximum(ms)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:MAXimum? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV. SYNCIPDV DELAYREQIPDV
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Maximum Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:MAX? DELAYREQIPDV
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:TX:DElay:REQUest:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:IPDV:MINimum?

Description	This query returns the Minimum Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request). Navigation Path: Results > PTP Stats > IPDV > Minimum(ms)
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:IPDV:MINimum? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV. SYNCIPDV DELAYREQIPDV
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Minimum Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:MIN? DELAYREQIPDV
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:TX:DElay:REQUest:RESPOnse:RATE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:STDDDev?	
Description	This query returns the Standard Deviation Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request) Navigation Path: Results > PTP Stats > IPDV > Standard Daviation(ms)
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:IPDV:STDDDev? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV SYNCIPDV DELAYREQIPDV
Response Syntax	<STDDDev>
Response(s)	STDDDev: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Standard Deviation Inter Packet Delay Variation IPDV Statistics
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:STDD? DELAYREQIPDV
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:RX:ANNounce:GRANT:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:COUNt?

Description	This query returns count of announce messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Announce > Count Navigation Path: Results > Quality Level > Total
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOck:CLASs?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNT?	
Description	This query returns count of announce grant messages sent by the Master Clock Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Announce Grant > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:HISTory?

:FETCh:DATA:TELeom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

Description	This query returns rate of announce grant messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Announce Grant > rate
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of announce grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:GRAN:RATE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:QL:LAST:CHANge?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?

Description	This query returns rate of announce messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Announce > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns rate of announce messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQUest:COUNt?

:FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:RESPOnse:COUNT?

Description	This query returns count of delay response messages sent by the master Clock Navigation Path: Results > PTP Stats > Count/Rate > Rx > Delay Resp > Count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:RX:DELaY:RESPOnse:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay response messages sent by the master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:FOLLOwup:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:COUNT?

Description	This query returns count of delay response grant messages sent by the Master Clock Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Delay Resp Grant > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay response grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SEConD?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:RATE?

Description	This query returns rate of delay response grant messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Delay Resp Grant > rate
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:GRAN:RATE?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:TX:MESSAges:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:RATE?	
Description	This query returns rate of delay response messages sent by the master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Delay Resp > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response messages sent by the master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQUest:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?

Description	This query returns count of Follow up messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Follow Up > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. returns count of Follow up messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:FOLL:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:IPDV?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?	
Description	This query returns rate of Follow up messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Follow Up > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Follow up messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:FOLL:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:RX:FOLLowup:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:COUNT?

Description	This query returns count of Sync messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Sync > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCK:MODE?

:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:GRANt:COU Nt?	
Description	This query returns count of Sync grant messages sent by the Master Clock Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Sync Grant > count
Syntax	:FETCh:DATA:TELEcom:PACKetsync:PTP:RX:SYNC:GRANt:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:GRAN:COUN?
See Also	FETCh:DATA:TELEcom:PACKetsync:PTP:ALARm:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?

Description	This query returns rate of Sync grant messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Sync Grant > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:MESSages:COUNT?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?	
Description	This query returns rate of Sync messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Sync > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQUest:RESPonse:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:RX:TOTal:COUNT?

Description	This query returns Total of all types messages sent by the Master Clock. Navigation Path: Results > PTP Stats > Count/Rate > Rx > Total Navigation Path: Results > Summary > Total PTP Messages > RX
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:RX:TOTal:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns Total of all types messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:TOT:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:QL:LAST:RECeived?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:REQue st:COUNT?	
Description	This query returns count of announce messages sent by the Slave Clock Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Announce Req > Count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of announce messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:REQ:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:QL:MESSege:COUNT?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?

Description	This query returns rate of announce messages sent by the Slave Clock. Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Announce Req > Rate(messages/s)
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of announce messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:REQ:RATE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:ANNounce:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:COUNt?	
Description	This query returns count of delay request messages sent by the Slave Clock Navigation Path: Results > PTP Stats > Count/Rate > Tx > Delay Req > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:RA TE?

Description	This query returns rate of delay request messages sent by the Slave Clock. Navigation Path: Results > PTP Stats > Count/Rate > Tx > Delay Req > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLOwup:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:RESPOnse:COUNt?	
Description	This query returns count of delay responce messages sent by the Slave Clock Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Delay Resp Req > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuest:RESPOnse:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of delay resp-req messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RESP:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RESPOnse:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuEst:RESPOnse:RATE?

Description	This query returns rate of delay response messages sent by the Slave Clock. Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Delay Resp Req > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELaY:REQuEst:RESPOnse:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of delay response messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RESP:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELaY:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?	
Description	This query returns count of Sync messages sent by the Slave Clock Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Sync Req > count
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of Sync messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:REQ:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:QL:OTHer?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?

Description	This query returns rate of Sync messages sent by the Slave Clock. Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Sync Req > rate
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns rate of Sync messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:REQ:RATE?
See Also	FETCh:DATA:TELeom:PACKetsync:PTP:RX:SYNC:RATE?

:FETCh:DATA:TELeom:PACKetsync:PTP:TX:TOTal:COUNT?	
Description	This query returns count of all messages by which service being requested. Navigation Path: Results > PTP Stats > Count/Rate > Tx > Total
Syntax	:FETCh:DATA:TELeom:PACKetsync:PTP:TX:TOTal:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns count of all messages by which service being requested.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:TOT:COUN?
See Also	FETCh:DATA:TELeom:PACKetsync:PTPStat:RX:DELaY:RESPOnse:RATE?

FEC Statistics

:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:CORRectable:PERCent?	
Description	This query returns the correctable codeword percentage per symber error of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Symbol Error per Correctable Codeword > %
Syntax	:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:CORRectable:PERCent? <wsp><Symbol>
Parameter(s)	Symbol: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of symbols.
Response Syntax	<Percent>
Response(s)	Percent: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the codeword percent for the number of symbols.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:CORR:PERC? 1
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:COUnT?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable?	
Description	This query returns the correctable codeword count per symbol error of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Symbol Error per Correctable Codeword
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable? <wsp><Symbol>
Parameter(s)	Symbol: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of symbols.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the codeword count for the number of symbols.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:CORR? 1
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNT?

:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:EFRee:PERCent?

Description	This query returns the error-free codeword percentage of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Other Statistics > Error-free Codeword > %
Syntax	:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:EFRee:PERCent?
Response Syntax	<Percent>
Response(s)	Percent: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the codeword percent for error-free codeword.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:EFR:PERC?
See Also	FETCh:DATA:TELeom:FOTN:FEC:ERRor:COUNT?

:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:EFRee?	
Description	This query returns the error-free codeword count of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Other Statistics > Error-free Codeword
Syntax	:FETCh:DATA:TELEcom:ETHernet:FEC:CODeword:EFRee?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the error-free codeword count.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:EFR?
See Also	FETCh:DATA:TELEcom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

Description	This query returns the uncorrectable codeword percentage of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Other Statistics > Uncorrectable Codeword > %
Syntax	:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?
Response Syntax	<Percent>
Response(s)	Percent: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the codeword percent for uncorrectable codeword.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:UNC:PERC?
See Also	FETCh:DATA:TELeom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:UNCorrectable?	
Description	This query returns the uncorrectable codeword count of FEC Statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Other Statistics > Uncorrectable Codeword > Codeword Count
Syntax	:FETCh:DATA:TELeom:ETHernet:FEC:CODeword:UNCorrectable?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the uncorrectable error codeword count.
Example(s)	LINS0:FETC:DATA:TEL:ETH:FEC:COD:UNC?
See Also	FETCh:DATA:TELeom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

MPLS

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX?

Description	This query returns the label value (RX) for stream. Navigation Path: Results > Streams > MPLS > Stream > Lable1 /Label 2 RX
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX? <wsp><Stream>, <Label Index>
Parameter(s)	Stream: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream number: 1 to 16 Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of RX frames.
Example(s)	FETC:DATA:TEL:ETH:STR:MPLS:FRAM:RX? 1,1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUnT?

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:TX?	
Description	This query returns the label value (TX) for stream. Navigation Path: Results > Streams > MPLS > Stream > Lable1 /Lable 2 TX
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:TX? <wsp><Number>, <Label Index>
Parameter(s)	Number: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream number: 1 to 16 Label Index: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Label Index.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of TX frames.
Example(s)	FETC:DATA:TEL:ETH:STR:MPLS:FRAM:TX? 1,1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNT?

:SENSe:DATA:TELeom:ETHernet:STReam:MPLS:RX:BANDwidth?

Description	This query returns the frame bandwidth of Multi Protocol Label Switching (MPLS) in megabits per second. At *RST condition, this value is device dependent. Navigation Path: Results > Streams > MPLS > Total RX MPLS > Ethernet BW(%)
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:MPLS:RX:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the ethernet bandwidth(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:RX:BAND?
See Also	SOURce:DATA:TELeom:ETHernet:STReam:MPLS:TTL

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNT?	
Description	This query returns total of all Multi Protocol Label Switching (MPLS) received valid and invalid frames. At *RST condition, this value is device dependent. Navigation Path: Results > Streams > MPLS > Total RX MPLS > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count all received valid and invalid frames (RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:RX:COUN?
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame rate in frame per second. At *RST condition, this value is device dependent. Navigation Path: Results > Streams > MPLS > Total RX MPLS > Frame Rate (Frame/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame rate(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:RX:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILization?	
Description	This query returns the Multi Protocol Label Switching (MPLS) frame utilization in percentage. At *RST condition, this value is device dependent. Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total RX MPLS > Line Utilization(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILization?
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame utilization(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:RX:UTIL?
See Also	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?

Description	This query returns the frame bandwidth of Multi Protocol Label Switching (MPLS) in megabits per second. At *RST condition, this value is device dependent. Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Ethernet BW(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the ethernet bandwidth (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:TX:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSExp?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNT?	
Description	This query returns total of all Multi Protocol Label Switching (MPLS) received valid and invalid frames. At *RST condition, this value is device dependent. Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of all received valid and invalid frames (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:TX:COUN?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame rate in frame per second. At *RST condition, this value is device dependent. Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Frame Rate (Frame/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame rate (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:TX:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSeXp

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?	
Description	This query returns the Multi Protocol Label Switching (MPLS) frame utilization in percentage. At *RST condition, this value is device dependent. Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Line Utilization(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame utilization (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON SENS:DATA:TEL:ETH:STR:MPLS:TX:UTIL?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

S-OAM and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:FDELaY:AVErAge:DELaY?

Description	This query returns the S-OAM Traffic Monitoring Statistics Average Delay. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Average > Delay Navigation Path: Results > S-OAM > Frame Delay > Average > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:AVErAge:DELaY?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame delay average Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:AVErAge:DELaY?
See Also	FETCh:DATA:TELecom:SOAM:TEST:STATus?

:FETCh:DATA:TELEcom:SOAM:FDElay:CURRent:DElay?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Current Delay. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Current > Delay Navigation Path: Results > S-OAM > Frame Delay > Current > Delay
Syntax	:FETCh:DATA:TELEcom:SOAM:FDElay:CURRent:DElay?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame delay current Count.
Example(s)	FETC:DATA:TEL:SOAM:FDElay:CURRent:DElay?
See Also	FETCh:DATA:TELEcom:SOAM:LOOPback:INValid:PAYLoad:COUNT?

:FETCh:DATA:TELecom:SOAM:FDELaY:FAILED:COUNT:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Delay > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Frame Delay Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:FAILED:COUNT:VERDict?
Response Syntax	<Frame Delay Failed Count VERDICT>
Response(s)	Frame Delay Failed Count VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Delay Failed Count verdict status. Pass Fail
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:FAILED:COUNT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:PERcent:VERD?

:FETCh:DATA:TELecom:SOAM:FDELaY:FAILed:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Delay > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:FAILed:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay failed Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:FAILed:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMEout:COUNT?

:FETCh:DATA:TELecom:SOAM:FDElay:INValid:DMR:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid DMR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Invalid DMR > Count Navigation Path: Results > S-OAM > Frame Delay > Invalid DMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDElay:INValid:DMR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay Invalid DMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FDElay:INValid:DMR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNT?

:FETCh:DATA:TELecom:SOAM:FDELaY:MAXimum:DELaY:VERDict?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Maximum Delay Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Maximum > Delay > Pass/Fail Verdict Navigation Path: Results > S-OAM > Frame Delay > Maximum > Delay Navigation Path: Results > Summary > Results Summary > Frame Delay(ms)(Maximum) > Results > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:MAXimum:DELaY:VERDict?
Response Syntax	<Frame Delay Maximum Delay VERDICT>
Response(s)	Frame Delay Maximum Delay VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Delay Maximum Delay verdict status. Pass Fail
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:MAXimum:DELaY:VERD?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:FDELaY:MAXimum:DELaY?

Description	This query returns the S-OAM Traffic Monitoring Statistics Maximum Delay. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Maximum > Delay Navigation Path: Results > S-OAM > Frame Delay > Maximum > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:MAXimum:DELaY?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame delay maximum Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:MAXimum:DELaY?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNT?

:FETCh:DATA:TELecom:SOAM:FDELaY:MINimum:DELaY?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Minimum Delay. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Minimum > Delay Navigation Path: Results > S-OAM > Frame Delay > Minimum > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:MINimum:DELaY?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame delay minimum Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:MINimum:DELaY?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:SUCcessful:COUNT?

:FETCh:DATA:TELecom:SOAM:FDElay:RX:DMR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics RX DMR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > RX DMR > Count Navigation Path: Results > S-OAM > Frame Delay > RX DMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDElay:RX:DMR:COUNt?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay Rx DMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FDElay:RX:DMR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:STATus?

:FETCh:DATA:TELecom:SOAM:FDELaY:STATus:VERDiCt?	
Description	This query returns the Frame Delay function shall report a Test Status Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > Status > Pass/Fail Verdict Navigation Path: Results > S-OAM > Frame Delay > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:STATus:VERDiCt?
Response Syntax	<Frame Delay Status VERDICT>
Response(s)	Frame Delay Status VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Delay Status verdict status. PASS,PASS as Delay Status verdict status is returned. FAIL,FAIL as Delay Status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOs:FAILed:COUNt:VERD?

:FETCh:DATA:TELEcom:SOAM:FDElay:STATus?

Description	This query returns the Frame Delay function shall report a Test Status. At *RST condition, this value is Idle, In Progress, Completed, Aborted. Navigation Path: Results > Summary > Frame Delay > Status Navigation Path: Results > S-OAM > Frame Delay > Status
Syntax	:FETCh:DATA:TELEcom:SOAM:FDElay:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame delay function running status. IDLE, selected status as IDLE INPROGRESS, selected status as INPROGRESS COMPLETED, selected status as COMPLETED ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:FDElay:STATus?
See Also	FETCh:DATA:TELEcom:SOAM:LOOPback:INValid:LBR:COUNT?

:FETCh:DATA:TELecom:SOAM:FDElay:SUCCEssful:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Delay > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDElay:SUCCEssful:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay successful Count.
Example(s)	FETC:DATA:TEL:SOAM:FDEL:SUC:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNT?

:FETCh:DATA:TELecom:SOAM:FDELaY:TX:DMM:COUnT?

Description	This query returns the S-OAM Traffic Monitoring Statistics TX DMM Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Delay > TX DMM > Count Navigation Path: Results > S-OAM > Frame Delay > TX DMM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELaY:TX:DMM:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame delay Tx DMM Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELaY:TX:DMM:COUnT?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:PERcent? FARend

:FETCh:DATA:TELEcom:SOAM:FLOsS:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > Count(NearEnd/FarEnd) Navigation Path: Results > S-OAM > Frame Loss > Count(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELEcom:SOAM:FLOsS:COUNT? <wsp> <type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Frame loss count NEAREND: NEARend Frame loss count FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss NEARend or FARend Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOsS:COUNT? NEARend
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:TX:DMM:COUNT?

:FETCh:DATA:TELecom:SOAM:FLOSS:FAILED:COUNT:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Failed Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Loss > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Frame Loss Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSS:FAILED:COUNT:VERDict?
Response Syntax	<Frame Loss Failed Count VERDICT>
Response(s)	Frame Loss Failed Count VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Loss Failed Count verdict status. PASS, PASS as Frame Loss Failed Count verdict status is returned. FAIL, FAIL as Frame Loss Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:FLOSS:FAILED:COUNT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:TEST:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:FLOsS:FAILed:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Failed Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Loss > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:FAILed:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss failed Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOsS:FAILed:COUnT?
See Also	FETCh:DATA:TELecom:SOAM:TEST:SUCcessful:COUnT?

:FETCh:DATA:TELecom:SOAM:FLOsS:INValid:LMR:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Invalid LMR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > Invalid LMR > Count Navigation Path: Results > S-OAM > Frame Loss > Invalid LMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:INValid:LMR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss Invalid LMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOsS:INValid:LMR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNT?

:FETCh:DATA:TELeom:SOAM:FLOsS:PERCent:VERDict?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Percent Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > Percent(NearEnd/FarEnd) > Pass/Fail Verdict Navigation Path: Results > S-OAM > Frame Loss > Percent(NearEnd/FarEnd) Navigation Path: Results > Summary > Results Summary > Frame Loss Ratio > Result (NearEnd/FarEnd) > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELeom:SOAM:FLOsS:PERCent:VERDict? <wsp><type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Frame loss count NEAREND: NEARend Frame loss count FAREND: FARend Frame loss count
Response Syntax	<Frame Loss Farend & NearEnd ratio VERDICT>
Response(s)	Frame Loss Farend & NearEnd ratio VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Loss Farend & NearEnd ratio verdict status.
Example(s)	FETC:DATA:TEL:SOAM:FLOsS:PERcent:VERD? FARend
See Also	FETCh:DATA:TELeom:SOAM:TEST:FAILED:COUNT:VERD?

:FETCh:DATA:TELEcom:SOAM:FLOSSs:PERCent?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Percent. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > Percent(NearEnd/FarEnd) Navigation Path: Results > S-OAM > Frame Loss > Percent(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELEcom:SOAM:FLOSSs:PERCent? <wsp> <type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Frame loss count NEAREND: NEARend Frame loss count FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Frame Loss NEARend or FARend percent.
Example(s)	FETC:DATA:TEL:SOAM:FLOSS:PERcent? FARend
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:RX:DMR:COUNT?

:FETCh:DATA:TELecom:SOAM:FLOsS:RX:LMR:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss RX LMR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > RX LMR > Count Navigation Path: Results > S-OAM > Frame Loss > RX LMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:RX:LMR:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss Rx LMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSS:RX:LMR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUnT?

:FETCh:DATA:TELecom:SOAM:FLOsS:STATus:VERDict?

Description	This query returns the Frame Loss function shall report a Test Status Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > Status > Pass/Fail Verdict Navigation Path: Results > S-OAM > Frame Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:STATus:VERDict?
Response Syntax	<Frame Loss status VERDICT>
Response(s)	Frame Loss status VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Loss status verdict status PASS, PASS as Frame Loss status verdict status is returned. FAIL, FAIL as Frame Loss status verdict statusis returned.
Example(s)	FETC:DATA:TEL:SOAM:FLOsS:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:FLOsS:STATus?	
Description	This query returns the Frame Loss function shall report a Test Status. At *RST condition, this value is Idle, In Progress, Completed, Aborted Navigation Path: Results > Summary > Frame Loss > Status Navigation Path: Results > S-OAM > Frame Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame loss function running Status. IDLE, IDLE is selected as Frame loss function running Status. INPROGRESS, INPROGRESS is selected as Frame loss function running Status. COMPLETED, COMPLETED is selected as Frame loss function running Status. ABORTED, ABORTED is selected as Frame loss function running Status.
Example(s)	FETC:DATA:TEL:SOAM:FLOSS:STATus?
See Also	FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT?

:FETCh:DATA:TELecom:SOAM:FLOsS:SUCCEssful:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Successful Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Loss > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOsS:SUCCEssful:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss Successful Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOS:SUC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:TEST:INValid:PAYLoad:COUNT?

:FETCh:DATA:TELecom:SOAM:FLOs:TX:LMM:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss TX LMM Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Frame Loss > TX LMM > Count Navigation Path: Results > S-OAM > Frame Loss > TX LMM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOs:TX:LMM:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Frame Loss Tx LMM Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOs:TX:LMM:COUnT?
See Also	FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUnT?

:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNT:VERD

ict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Loopback > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Loopback
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNT:VERDict?
Response Syntax	<Loopback Failed Count VERDICT>
Response(s)	Loopback Failed Count VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Loopback Failed Count verdict status. PASS,PASS as Loopback Failed Count verdict status is returned. FAIL,FAIL as Loopback Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:FAILed:COUNT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:FAILed:COUNT:VERD?

:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Loopback > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback failed Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:FAILed:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:SLOs:PERcent? FAREnd

:FETCh:DATA:TELeom:SOAM:LOOPback:INValid:LBR:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid LBR Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > Invalid LBR > Count Navigation Path: Results > S-OAM > Loopback > Invalid LBR > Count
Syntax	:FETCh:DATA:TELeom:SOAM:LOOPback:INValid:LBR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback Invalid LBR Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:INValid:LBR:COUNT?
See Also	FETCh:DATA:TELeom:SOAM:SLOsS:FAILed:COUNT?

:FETCh:DATA:TELEcom:SOAM:LOOPback:INValid:PAYLoad:COUnT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid Payload Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > Invalid Payload > Count Navigation Path: Results > S-OAM > Loopback > Invalid Payload > Count
Syntax	:FETCh:DATA:TELEcom:SOAM:LOOPback:INValid:PAYLoad:COUnT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback invalid payload Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:INValid:PAYLoad:COUnT?
See Also	FETCh:DATA:TELEcom:SOAM:SLOSs:STATus?

:FETCh:DATA:TELeom:SOAM:LOOPback:LBR:TIMeout:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics LBR TimeOut Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > LBR Timeout > Count Navigation Path: Results > S-OAM > Loopback > LBR Timeout > Count
Syntax	:FETCh:DATA:TELeom:SOAM:LOOPback:LBR:TIMeout:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback LBR timeout Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:LBR:TIMeout:COUNT?
See Also	FETCh:DATA:TELeom:SOAM:SLOSs:SUCcessful:COUNT?

:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics TX LBM Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > RX LBR > Count Navigation Path: Results > S-OAM > Loopback > RX LBR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback Rx LBR Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:RX:LBR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:INValid:SLR:COUNT?

:FETCH:DATA:TELEcom:SOAM:LOOPback:STATus:VERDict?

Description	This query returns the Loopback function shall report a Test Status Pass/Fail Verdict At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > Status > Pass/Fail Verdict Navigation Path: Results > S-OAM > Loopback > Status
Syntax	:FETCH:DATA:TELEcom:SOAM:LOOPback:STATus:VERDict?
Response Syntax	<Loopback Status VERDICT>
Response(s)	Loopback Status VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Loopback Status verdict status. PASS,PASS as Loopback Status verdict status is returned. FAIL,FAIL as Loopback Status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:STATus:VERD?
See Also	FETCH:DATA:TELEcom:SOAM:FLOSS:STATus:VERD?

:FETCh:DATA:TELEcom:SOAM:LOOPback:STATus?	
Description	This query returns the Loopback function shall report a Test Status At *RST condition, this value is Idle, In Progress, Completed, Aborted. Navigation Path: Results > Summary > Loopback > Status Navigation Path: Results > S-OAM > Loopback > Status
Syntax	:FETCh:DATA:TELEcom:SOAM:LOOPback:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Loopback function running Status. IDLE, IDLE is selected as Loopback function running Status. INPROGRESS, INPROGRESS is selected as Loopback function running Status. COMPLETED,COMPLETED is selected as Loopback function running Status. ABORTED, BORTED is selected as Loopback function running Status.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:STATus?
See Also	FETCh:DATA:TELEcom:SOAM:SLOS:TX:SLM:COUNT?

:FETCh:DATA:TELecom:SOAM:LOOPback:SUCCEssful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Loopback > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:SUCCEssful:COUNt?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback successful Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOP:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:COUNt? NEARend

:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics TX LBM Count At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Loopback > TX LBM > Count Navigation Path: Results > S-OAM > Loopback > TX LBM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Loopback Tx LBM Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:TX:LBM:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:SLOs:RX:SLR:COUNT?

:FETCh:DATA:TELEcom:SOAM:SLOSs:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > Count(NearEnd/FarEnd) Navigation Path: Results > S-OAM > Synthetic Loss > Count(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELEcom:SOAM:SLOSs:COUNT? <wsp><type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Synthetic loss count NEAREND: NEARend Frame loss count FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss NEARend or FARend Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:COUNT? NEARend
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:MAXimum:DElay?

:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNT:VERDict?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Failed Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Synthetic Loss > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Synthetic Loss Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNT:VERDict?
Response Syntax	<Synthetic Loss Failed Count VERDICT>
Response(s)	Synthetic Loss Failed Count VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Synthetic Loss Failed Count verdict status. PASS, PASS as Synthetic Loss Failed Count verdict status is returned. FAIL, FAIL as Synthetic Loss Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:FAILed:COUNT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:FAILed:COUNT:VERD?

:FETCh:DATA:TELecom:SOAM:SLOs:FAILed:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Failed Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Synthetic Loss > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOs:FAILed:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss failed Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:FAILed:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:CURRent:DElay?

:FETCh:DATA:TELecom:SOAM:SLOs:INValid:SLR:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Invalid SLR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > Invalid SLR > Count Navigation Path: Results > S-OAM > Synthetic Loss > Invalid SLR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOs:INValid:SLR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss Invalid SLR Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:INValid:SLR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:FAILed:COUNT?

:FETCh:DATA:TELeom:SOAM:SLOs:PERCent:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Percent Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > Percent(NearEnd/FarEnd) > Pass/Fail Verdict Navigation Path: Results > S-OAM > Synthetic Loss > Percent(NearEnd/FarEnd) Navigation Path: Results > Summary > Results Summary > Synthetic Loss Ratio > Result (NearEnd/FarEnd) > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELeom:SOAM:SLOs:PERCent:VERDict? <wsp> <type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Synthetic loss count NEAREND: NEARend Frame loss count FAREND: FAREnd Frame loss count
Response Syntax	<Synthetic Loss Farend & NearEnd ratio VERDICT>
Response(s)	Synthetic Loss Farend & NearEnd ratio VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Synthetic Loss Farend & NearEnd verdict status.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:PERcent:VERD? FAREnd
See Also	FETCh:DATA:TELeom:SOAM:FDElay:MAXimum:DElay:VERD?

:FETCh:DATA:TELEcom:SOAM:SLOs:PERCent?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Percent. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > Percent(NearEnd/FarEnd) Navigation Path: Results > S-OAM > Synthetic Loss > Percent(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELEcom:SOAM:SLOs:PERCent? <wsp> <type>
Parameter(s)	type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects Nearend or farend Synthetic loss count NEAREND: NEARend Frame loss count FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Synthetic Loss NEARend or FARend percent.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:PERcent? FARend
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:AVERage:DElay?

:FETCH:DATA:TELecom:SOAM:SLOs:RX:SLR:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss TX SLR Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > RX SLR > Count Navigation Path: Results > S-OAM > Synthetic Loss > RX SLR > Count
Syntax	:FETCH:DATA:TELecom:SOAM:SLOs:RX:SLR:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss Rx SLR Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:RX:SLR:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:SUCessful:COUNT?

:FETCh:DATA:TELecom:SOAM:SLOs:STATus:VERDict?	
Description	This query returns the Synthetic Loss function shall report a Test Status Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > Status > Pass/Fail Verdict Navigation Path: Results > S-OAM > Synthetic Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:SLOs:STATus:VERDict?
Response Syntax	<Synthetic Loss status VERDICT>
Response(s)	Synthetic Loss status VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Synthetic Loss status verdict status. PASS, PASS as Synthetic Loss status verdict status is returned. FAIL, FAIL as Synthetic Loss status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:STATus:VERD?

:FETCH:DATA:TELEcom:SOAM:SLOSs:STATus?

Description	This query returns the Synthetic Loss function shall report a Test Status. At *RST condition, this value is Idle, In Progress, Completed, Aborted. Navigation Path: Results > Summary > Synthetic Loss > Status Navigation Path: Results > S-OAM > Synthetic Loss > Status
Syntax	:FETCH:DATA:TELEcom:SOAM:SLOSs:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Sythetic loss function running Status. IDLE, selected status as IDLE INPROGRESS, selected status as INPROGRESS COMPLETED, selected status as COMPLETED ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:STATus?
See Also	FETCH:DATA:TELEcom:SOAM:FDElay:MINimum:DElay?

:FETCh:DATA:TELecom:SOAM:SLOSs:SUCCEssful:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Successful Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Synthetic Loss > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:SUCCEssful:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss Successful Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOS:SUC:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:STATus?

:FETCh:DATA:TELecom:SOAM:SLOs:TX:SLM:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss TX SLM Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Synthetic Loss > TX SLM > Count Navigation Path: Results > S-OAM > Synthetic Loss > TX SLM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOs:TX:SLM:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Sythetic Loss Tx SLM Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOs:TX:SLM:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:INValid:DMR:COUNT?

:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT:VERDICT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Test > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Test
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT:VERDICT?
Response Syntax	<TEST Failed Count VERDICT>
Response(s)	TEST Failed Count VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Test failed count verdict status. PASS, PASS as Test failed count verdict status is returned. FAIL, FAIL as Test failed count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:TEST:FAILed:COUNT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Test > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test failed Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:FAILed:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:COUNT? NEARend

:FETCh:DATA:TELEcom:SOAM:TEST:INValid:PAYLoad:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid Payload Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Test > Invalid Payload > Count Navigation Path: Results > S-OAM > Test > Invalid Payload > Count
Syntax	:FETCh:DATA:TELEcom:SOAM:TEST:INValid:PAYLoad:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test Invalid payload Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:INV:PAYL:COUN?
See Also	FETCh:DATA:TELEcom:SOAM:FLOSS:FAILed:COUNT?

:FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid TST Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Test > Invalid TST > Count Navigation Path: Results > S-OAM > Test > Invalid TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test invalid TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:INValid:TST:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:SUCcessful:COUNT?

:FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics RX TST Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Test > RX TST > Count Navigation Path: Results > S-OAM > Test > RX TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test Rx TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:RX:TST:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:INValid:LMR:COUNT?

:FETCH:DATA:TELEcom:SOAM:TEST:STATus:VERDict?

Description	This query returns the Test function shall report a Test Status Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Test > Status > Pass/Fail Verdict Navigation Path: Results > S-OAM > Test > Status
Syntax	:FETCH:DATA:TELEcom:SOAM:TEST:STATus:VERDict?
Response Syntax	<TEST STATUS VERDICT>
Response(s)	TEST STATUS VERDICT: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Test status verdict status. PASS,PASS as Test status verdict status is returned. FAIL,FAIL as Test status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:TEST:STATus:VERD?
See Also	FETCH:DATA:TELEcom:SOAM:FLOs:PERcent:VERD?

:FETCh:DATA:TELecom:SOAM:TEST:STATus?	
Description	This query returns the Test function shall report a Test Status. At *RST condition, this value is Idle, In Progress, Completed, Aborted. Navigation Path: Results > Summary > Test > Status Navigation Path: Results > S-OAM > Test > Status
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Test function running Status. IDLE, selected status as IDLE INPROGRESS, selected status as INPROGRESS COMPLETED, selected status as COMPLETED ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:TEST:STATus?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:TX:LMM:COUNT?

:FETCh:DATA:TELecom:SOAM:TEST:SUCCEssful:COUNT?

Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Test > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:SUCCEssful:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test successful Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:SUCCE:COUN?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:STATus?

:FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNT?	
Description	This query returns the S-OAM Traffic Monitoring Statistics TX TST Count. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > Test > TX TST > Count Navigation Path: Results > S-OAM > Test > TX TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNT?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Test Tx TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:TX:TST:COUNT?
See Also	FETCh:DATA:TELecom:SOAM:FLOSS:RX:LMR:COUNT?

Link OAM

:FETCh:DATA:TELecom:LOAM:REMOte:EVENT:STATistic:FPERiod?

Description	This query returns the Remote Error Event Statistics Frame Period. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame Period It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELecom:LOAM:REMOte:EVENT:STATistic:FPERiod? <wsp><Frame Period>
Parameter(s)	Frame Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return Remote Error Event Statistics of Frame Period according to given parameter. RDATEstamp: Date Stamp. RTIMEstamp: Time Stamp. WINDOW: Window. RTHreshold: Threshold. RCERror: Error Count. RTERror: Error Running Total. RTEVent: Event Running Total.
Response Syntax	<Frame Period>
Response(s)	Frame Period: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return Remote Error Event stats of Frame Period.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FPER? RTEVent
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELEcom:LOAM:REMote:EVENT:STATistic:FRAMe?	
Description	This query returns the Remote Error Event Statistics Frame. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELEcom:LOAM:REMote:EVENT:STATistic:FRAMe? <wsp><Frame>
Parameter(s)	Frame: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return Remote Error Event Statistics of Frame according to given parameter. RDATestamp: Date Stamp. RTIMestamp: Time Stamp. WINDow: Window. RTHreshold: Threshold. RCERror: Error Count. RTERror: Error Running Total. RTEVent: Event Running Total.
Response Syntax	<Frame>
Response(s)	Frame: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return Remote Error Event stats of Frame.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FRAM? RTEVent
See Also	FETCh:DATA:TELEcom:TSCan:LINK:RATE?

:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:FSECon d?

Description	This query returns the Remote Error Event Statistics Frame Second. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame Seconds It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELEcom:LOAM:REMOte:EVENT:STATistic:FSECond? <wsp><Frame Second>
Parameter(s)	Frame Second: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return Remote Error Event Statistics Of Frame Seconds according to given parameter. RDATestamp: Date Stamp. RTIMestamp: Time Stamp. WINDow: Window. RTHreshold: Threshold. RCERror: Error Count. RTERror: Error Running Total. RTEVent: Event Running Total.
Response Syntax	<Frame Second>
Response(s)	Frame Second: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return Remote Error Event stats of Frame Second.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FSEC? RTEVent
See Also	FETCh:DATA:TELEcom:TSCan:LINK:RATE?

:FETCh:DATA:TELEcom:LOAM:REMote:EVENT:STATistic:SPERiod?	
Description	This query returns the Remote Error Event Statistics Symbol Period. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote Error Event Statistics > Symbol Period It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELEcom:LOAM:REMote:EVENT:STATistic:SPERiod? <wsp><Symbol Period>
Parameter(s)	Symbol Period: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return Remote Error Event Statistics of Symbol Period according to given parameter. RDATestamp: Date Stamp. RTIMestamp: Time Stamp. WINDow: Window. RTHreshold: Threshold. RCERror: Error Count. RTERror: Error Running Total. RTEVent: Event Running Total.
Response Syntax	<Symbol Period>
Response(s)	Symbol Period: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Return Remote Error Event stats of Symbol Period.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:SPER? RTEVent
See Also	FETCh:DATA:TELEcom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:REMOte:MAC?

Description	This query returns the Remote MAC Address. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote MAC Address
Syntax	:FETCh:DATA:TELecom:LOAM:REMOte:MAC?
Response Syntax	<MAC Address>
Response(s)	MAC Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Remote MAC Address.
Example(s)	FETC:DATA:TEL:LOAM:REM:MAC?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDReSS:DEStination?

:FETCh:DATA:TELecom:LOAM:REMOte:OAMInfo?	
Description	This query returns the Remote OAM Information. At *RST, this value is device dependent. Navigation Path: Results > Link OAM > Remote OAM Information It Shows: OAM Version, Revision, Multiplexer Action, Parser Action, OAM Mode, OUI, Maximum OAMPDU Size, Vendor specific information, Unidirectional, Remote Loopback, Variable Retrieval, Link Events.
Syntax	:FETCh:DATA:TELecom:LOAM:REMOte:OAMInfo? <wsp><Remote OAMInfo>
Parameter(s)	Remote OAMInfo: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Return Remote OAM Information according to given parameter. OVERsion: OAM Version. OREVision: OAM Revision. OMACtion: Multiplexer Action. OPACtion: Parser Action. ROAMode: OAM Mode. OUIRemote: Remote OUI. OMSize: Maximum OAMPDU Size. VSINfo: Vendor Specific Information. UNIDir: Unidirectional. RLBack: Remote Loopback. VRETrival: Variable Retrival. LEVent: Link Events.
Response Syntax	<Remote OAM Information>
Response(s)	Remote OAM Information: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Remote OAM Information.
Example(s)	FETC:DATA:TEL:LOAM:REM:OAMI? OVERsion
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:SOURce:DATA:TELecom:LOAM:ERRor:FRAMe:INJect

Description	This command allows Injecting Error Frames. At *RST condition, this value is set to 1. Navigation Path: Results > Link OAM > Inject Errored Frames
Syntax	:SOURce:DATA:TELecom:LOAM:ERRor:FRAMe:INJect
Response Syntax	<Remote OAM Information>
Example(s)	SOUR:DATA:TEL:LOAM:ERR:FRAM:INJ
See Also	FETCh:DATA:TELecom:PATtern:ALARm:PATtern:SEConds?

SDT (Multi-Channel OTN)

:FETCh:DATA:TELecom:SDT:CHAThreshold?	
Description	This query returns the number of channels that crossed the pass/fail verdict threshold, when SDT pass/fail verdict is enabled, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels Above Threshold
Syntax	:FETCh:DATA:TELecom:SDT:CHAThreshold?
Response Syntax	<Number of channels that crossed the pass/fail verdict threshold>
Response(s)	Number of channels that crossed the pass/fail verdict threshold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of channels that crossed the pass/fail verdict threshold, when SDT pass/fail verdict is enabled, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:CHAT?
See Also	FETCh:DATA:TELecom:SDT:VERD? 3

:FETCh:DATA:TELecom:SDT:CHDIruption?

Description	This query returns the number of channels that had one or more disruption(s), since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels with Disruptions
Syntax	:FETCh:DATA:TELecom:SDT:CHDIruption?
Response Syntax	<Number of channels in disruption>
Response(s)	Number of channels in disruption: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of channels that had one or more disruption(s), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:CHDI?
See Also	FETCh:DATA:TELecom:SDT:LAST? 3 FETCh:DATA:TEL:SDT:LACH?

:FETCh:DATA:TELecom:SDT:CHMOnitored?	
Description	This query returns the number of channels monitored. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels Monitored
Syntax	:FETCh:DATA:TELecom:SDT:CHMOnitored?
Response Syntax	<Number of channels monitored>
Response(s)	Number of channels monitored: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of channels monitored.
Example(s)	FETC:DATA:TEL:SDT:CHMO?

:FETCh:DATA:TELecom:SDT:LACHannel?

Description	This query returns the channel with the last disruption, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Last Disruption (Channel)
Syntax	:FETCh:DATA:TELecom:SDT:LACHannel?
Response Syntax	<Channel>
Response(s)	Channel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel with last detected disruption, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LACH?
See Also	FETCh:DATA:TELecom:SDT:LAST? 3

:FETCh:DATA:TELEcom:SDT:LATImestamp?	
Description	This query returns the last disruption detection timestamp, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Last Disruption (Duration)
Syntax	:FETCh:DATA:TELEcom:SDT:LATImestamp? <wsp><Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the detection timestamp of the last disruption for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Last timestamp>
Response(s)	Last timestamp: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the last disruption detection timestamp (local time), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LATI? 3
See Also	FETCh:DATA:TELEcom:SDT:LAST? 3

:FETCh:DATA:TELeom:SDT:LOCHannel?

Description	This query returns the channel with the longest disruption duration, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Longest Disruption (Channel)
Syntax	:FETCh:DATA:TELeom:SDT:LOCHannel?
Response Syntax	<Channel>
Response(s)	Channel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel with the longest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LOCH?
See Also	FETCh:DATA:TELeom:SDT:LONGest? 3

:FETCh:DATA:TELecom:SDT:LOTImestamp?	
Description	This query returns the longest disruption detection timestamp, since test was started/reset. At *RST condition, this value is device dependent. Navigation Path: Test > Multi-Channel OTN > Results > SDT > Longest Disruption (Duration)
Syntax	:FETCh:DATA:TELecom:SDT:LOTImestamp? <wsp><Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications. The query returns the detection timestamp of the longest disruption for the specified channel. The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Longest timestamp>
Response(s)	Longest timestamp: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the longest disruption detection timestamp (local time), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LOTI? 3
See Also	FETCh:DATA:TELecom:SDT:LONGest? 3

Messages (OBSAI)

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:C[1..n]?

Description	This Query returns the OBSAI Message c1 Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Messages > RX Frame Clock Burst Details - c1
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:C[1..n]?
Response Syntax	<c1Count>
Response(s)	c1Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return C1 Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:C1?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:RXCount?	
Description	This Query returns the OBSAI Message RX Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Messages > Message Type - RX Count
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:MESSages:RXCount? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Message Type. CONTROL: Control MEASUREMENT: Measurement WFDD: WCDMA/FDD WTDD: WCDMA/TDD GEDGE: GSM/EDGE TETRA: TETRA CDMA2000: CDMA2000 WLAN: WLAN LOOPBACK: Loopback FCB: Frame Clock Burst ETHERNET: Ethernet RTTMESSAGE: RTT Message 802_16: 802.16 VHWRESET: Virtual HW Reset LTE: LTE GPACKET: Generic Packet MRTTMESSAGE: Multi-hop RTT Message OTHERS: Others
Response Syntax	<Message Type RX Count>

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:RXCount?

Response(s)	Message Type RX Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return Message Type RX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:RXC? LTE
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

SCPI Command Reference

Messages (OBSAI)

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?	
Description	This Query returns the OBSAI Message SFN Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Messages > RX Frame Clock Burst Details - SFN
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?
Response Syntax	<SFN Count>
Response(s)	SFN Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return SFN Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:SFN?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

Description	This Query returns the OBSAI Message TX Count. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Messages > Message Type - RX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount? <wsp><Message>
Parameter(s)	Message: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the Message Type. WFDD: WCDMA/FDD GEDGE: GSM/EDGE FCB: Frame Clock Burst RTTMESSAGE: RTT Message 802_16: 802.16 LTE: LTE
Response Syntax	<Message Type TX Count>
Response(s)	Message Type TX Count: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return Message Type TX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:TXC? LTE
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMAry:TXCount?

Measurements (DCO)

:FETCh:DATA:TELEcom:DCO:OPTical:METRICS:RX?	
Description	This query returns the value of given DCO Optical Metric. Navigation Path: Results > Measurements > Optical Metrics Navigation Path: Setup > Test Configurator > Interface (DCO) > Optical Metrics
Syntax	:FETCh:DATA:TELEcom:DCO:OPTical:METRICS:RX? <wsp><OpticalMetric>, <ValueType>
Parameter(s)	OpticalMetric: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Select the DCO Optical Metric CD CFO DGD OSNR ValueType: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Select Current/Average/Minimum/Maximum. AVERage CURRent MAXValue: Maximum MINValue: Minimum
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the optical metric value.
Example(s)	FETCh:DATA:TELEcom:DCO:OPTical:METRICS:RX? OSNR,CURR Returns: 1.5
See Also	FETCh:DATA:TELEcom:CAUI:ALARm:LANE:CURRent?

APS

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

Description	This query returns Architecture for Linear Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Architecture for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:ARCH?
See Also	FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHAN?

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?	
Description	This query returns Bridge Request for Ring Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Bridge Request
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Bridge Request for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:BRQ?
See Also	FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNode?

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

Description	This query returns Channel for Linear Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Linear) > Channel
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Channel for Linear Switching Mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:CHAN?
See Also	FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?	
Description	This query returns Destination node Id for Ring Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Destination Node Id
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Destination Node Id for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:DNODE?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?

Description	This query returns Operation mode for Linear Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Operation Mode
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Operation mode for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?	
Description	This query returns the K1 Request for Linear Switching mode for RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Request
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request for Linear Switching mode
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

Description	This query returns Protected Channel for Linear Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Linear) > Protected Channel
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Protected Channel for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:PCH?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNode?

:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?	
Description	This query returns Operation mode for Ring Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Operation Mode
Syntax	:FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Operation mode for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE?
See Also	FETCh:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

Description	This query returns the K1 Request for Ring Switching mode for RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Request
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request for Ring Switching mode
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?	
Description	This query returns Source Node Id for Ring Switching mode RX. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Source Node Id
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Source Node Id for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:SNODE?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?

:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE

Description	This command selects the Switching mode for RX. At *RST condition, this value is set to LINEAR. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode
Syntax	:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Switching Mode. LINEar RING
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR SENS:DATA:TEL:SDHS:ADV:APS:SMODE? Returns: LINEAR
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:OMODE

:SENSe:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?	
Description	This query returns the Switching mode for RX. At *RST condition, this value is set to LINEAR. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode
Syntax	:SENSe:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Switching mode for RS-MS advance. LINEAR - Linear is selected for Switching Mode. RING - Ring is selected for Switching Mode.
Example(s)	SENS:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR SENS:DATA:TEL:SDHS:ADV:APS:SMODE? Returns: LINEAR
See Also	SENS[1..n]:DATA:TEL:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture	
Description	This command sets the Architecture for Linear Switching mode. At *RST condition, this value is set to 1TO1 Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Architecture for Linear Switching. 1TO1: 1+1 1TON: 1+N
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH 1TO1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH? Returns: 1TO1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?	
Description	This query returns the Architecture for Linear switching mode. At *RST condition, this value is set to 1TO1 Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear Switchching Mode Architecture. 1TO1 - 1 + 1 Architecture is selected. 1TON - 1 + N Architecture is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH 1TO1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH? Returns: 1TO1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

**:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BR
EQuest**

Description	This command sets Bridge Request for Ring Switching mode. At *RST condition, this value is set to SPATH. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Bridge Request
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest <wsp><Bridge>
Parameter(s)	Bridge: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Bridge Request for Ring Switching. SPATH: Short Path LPATH: Long Path
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ SPATH SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ? Returns: SPATH
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?	
Description	This query returns Bridge Request for Ring Switching mode. At *RST condition, this value is set to SPATH. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Bridge Request
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Bridge Request for Ring Switching mode. SPATH - Short Path is selected. LPATH - Long Path is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ SPATH SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ? Returns: SPATH
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel	
Description	This command selects the K1 Channel for Linear Switching mode. At *RST condition, this value is set to NULL. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Channel
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the K1 Channel for Linear Switching. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN 1 SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?	
Description	This query returns the K1 Channel for Linear Switching Mode. At *RST condition, this value is set to NULL. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Channel
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear switching mode Channel: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN 1 SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:D NODE	
Description	This comman selects Destination node Id for Ring Switching mode. At *RST condition, this value is set to 0. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Destination Node Id
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE <wsp><Node ID>
Parameter(s)	Node ID: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K1 Destination Node Id for Ring Switching: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD 1 SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?	
Description	This query returns Destination node Id for Ring Switching mode. At *RST condition, this value is set to 0. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Destination Node Id
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:DNODE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Destination Node Id for Ring Switching mode: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD 1 SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE

Description	This command sets the Operation mode for Linear Switching mode. At *RST condition, this value is set to RESERVED000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Operation Mode for Linear Switching. RESERVED000: Reserved (000) RESERVED001: Reserved (001) RESERVED010: Reserved (010) RESERVED011: Reserved (011) UNI100: Unidirectional (100) BID101: Bidirectional (101) MSRDI110: MS-RDI (110) MSAIS111: MS-AIS (111)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE RESERVED001 SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE? Returns: RESERVED001
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?	
Description	This query returns the Operation mode for Linear Switching mode. At *RST condition, this value is set to RESERVED000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear Switching Operation Mode. RESERVED000 - RESERVED000 is selected RESERVED001 - RESERVED001 is selected RESERVED010 - RESERVED010 is selected RESERVED011 - RESERVED011 is selected UNI100 - UNI100 is selected MSRDI110 - MSRDI110 is selected MSAIS111 - MSAIS111 is selected
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE RESERVED001 SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE? Returns: RESERVED001
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest

Description	This command selects the K1 Request for Linear Switching Mode. At *RST condition, this value is set to NREQUEST0000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Linear Request NREQUEST0000: No Request (0000) DNREVERT0001: Do Not Revert (0001) RREQUEST0010: Reverse Request (0010) UNUSED0011: Unused (0011) EXERCISER0100: Exerciser (0100) UNUSED0101: Unused (0101) WTRESTORE0110: Wait to restore (0110) UNUSED0111: Unused (0111) MSWITCH1000: Manual Switch UNUSED1001: Unused (1001) SDLOW1010: Signal Degrade (1010) SDHIGH1011: Signal Degrade - High Priority (1011) SFLOW1100: Signal Fail - Low Priority (1100) SFHIGH1101: Signal Fail - High Priority (1101) FSWITCH1110: Forced Switch (1110) LPROTECTION1111: Lockout of Protection (1111)

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest

Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ RREQUEST0010 SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ? Returns: RREQUEST0010
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

Description	This query returns the K1 request for Linear Switching Mode. At *RST condition, this value is set to NREQUEST0000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
Response Syntax	<Type>

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear Request NREQUEST0000 - No Request (0000) request type is selected. DNREVERT0001 - Do Not Revert (0001) request type is selected. RREQUEST0010 - Reverse Request (0010) request type is selected. UNUSED0011 - Unused (0011) request type is selected. EXERCISER0100 - Exerciser (0100) request type is selected. UNUSED0101 - Unused (0101) request type is selected. WTRESTORE0110 - Wait to restore (0110) request type is selected. UNUSED0111 - Unused (0111) request type is selected. MSWITCH1000 - Manual Switch request type is selected. UNUSED1001 - Unused (1001) request type is selected. SDLOW1010 - Signal Degrade (1010) request type is selected. SDHIGH1011 - Signal Degrade - High Priority (1011) request type is selected. SFLOW1100 - Signal Fail - Low Priority (1100) request type is selected. SFHIGH1101 - Signal Fail - High Priority (1101) request type is selected. FSWITCH1110 - Forced Switch (1110) request type is selected. LPROTECTION1111 - Lockout of Protection (1111) request type is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ RREQUEST0010 SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ? Returns: RREQUEST0010
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?

**:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PC
Hannel**

Description	This command sets the Protected Channel for Linear Switching Mode At *RST condition, this value is set to NULL. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Protected Channel
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Protected Channel for Linear Switching: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH 1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PC Hannel?	
Description	This query returns the Protected Channel for Linear Switching mode. At *RST condition, this value is set to NULL. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Protected Channel
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear Switching mode Protected Channel: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH 1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE

Description	This command sets the Operation mode for Ring Switching mode. At *RST condition, this value is set to IDLE000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Operation Mode for Ring Switching. IDLE000: IDLE (000) BRIDGED001: BRIDGED (001) BSWITCHED010: BSWITCHED (010) ETPROTECTION011: ETPROTECTION (011) RESERVED100: RESERVED (100) RESERVED101: RESERVED (101) MSRDI110: MS-RDI (110) MSAIS111: MS-AIS (111)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE IDLE000 SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE? Returns: IDLE000
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?	
Description	This query returns the Operation mode for Ring Switching mode. At *RST condition, this value is set to IDLE000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Operation Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Ring Swithching Operation Mode. IDLE000 - IDLE000 BRIDGED001 - BRIDGED001 is selected BSWITCHED010 - BSWITCHED010 is selected ETPROTECTION011 - ETPROTECTION011 is selected RESERVED100 - RESERVED100 is selected RESERVED101 - RESERVED101 is selected MSRDI110 - MSRDI110 is selected MSAIS111 - MSRDI111 is selected
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE IDLE000 SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE? Returns: IDLE000
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest

Description	This command selects the K1 Request for Ring Switching Mode. At *RST condition, this value is set to NREQUEST0000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Ring Request NREQUEST0000: No Request (0000) DNREVERT0001: Do Not Revert (0001) RREQUEST0010: Reverse Request (0010) UNUSED0011: Unused (0011) EXERCISER0100: Exerciser (0100) UNUSED0101: Unused (0101) WTRESTORE0110: Wait to restore (0110) UNUSED0111: Unused (0111) MSWITCH1000: Manual Switch UNUSED1001: Unused (1001) SDLOW1010: Signal Degrade (1010) SDHIGH1011: Signal Degrade - High Priority (1011) SFLOW1100: Signal Fail - Low Priority (1100) FSHIGH1101: Signal Fail - High Priority (1101) FSWITCH1110: Forced Switch (1110) LPROTECTION1111: Lockout of Protection (1111)

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest

Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ RREQUEST0010 SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ? Returns: RREQUEST0010
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

Description	This query returns the K1 request for Ring Switching Mode. At *RST condition, this value is set to NREQUEST0000. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?
Response Syntax	<Type>

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Linear Request NREQUEST0000 - No Request (0000) request type is selected. DNREVERT0001 - Do Not Revert (0001) request type is selected. RREQUEST0010 - Reverse Request (0010) request type is selected. UNUSED0011 - Unused (0011) request type is selected. EXERCISER0100 - Exerciser (0100) request type is selected. UNUSED0101 - Unused (0101) request type is selected. WTRESTORE0110 - Wait to restore (0110) request type is selected. UNUSED0111 - Unused (0111) request type is selected. MSWITCH1000 - Manual Switch request type is selected. UNUSED1001 - Unused (1001) request type is selected. SDLOW1010 - Signal Degrade (1010) request type is selected. SDHIGH1011 - Signal Degrade - High Priority (1011) request type is selected. SFLOW1100 - Signal Fail - Low Priority (1100) request type is selected. SFHIGH1101 - Signal Fail - High Priority (1101) request type is selected. FSWITCH1110 - Forced Switch (1110) request type is selected. LPROTECTION1111 - Lockout of Protection (1111) request type is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ RREQUEST0010 SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ? Returns: RREQUEST0010
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE?

**:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:S
NODe**

Description	This command selects Source Node Id for Ring Switching mode. At *RST condition, this value is set to 0. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Source Node Id
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe <wsp> <Node ID>
Parameter(s)	Node ID: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the K2 Source Node Id for Ring Switching: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD 1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:S NODE?	
Description	This query returns Source Node Id for Ring Switching mode. At *RST condition, this value is set to 0. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Source Node Id
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:SNODE?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Source Node Id for Ring Switching mode:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD 1 SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE

Description	This command sets the switching mode At *RST condition, this value is set to Linear. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Switching Mode. LINEar RING
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR SOUR:DATA:TEL:SDHS:ADV:APS:SMODE? Returns: LINEAR
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?	
Description	This query returns the switching mode At *RST condition, this value is set to Linear. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode
Syntax	:SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:SMODE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Switching mode for RS-MS advance. LINEAR - Linear is selected for Switching Mode. RING - Ring is selected for Switching Mode.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR SOUR:DATA:TEL:SDHS:ADV:APS:SMODE? Returns: LINEAR
See Also	SOURce:DATA:TELEcom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

Path OAM APS

:FETCh:DATA:TELeom:FETHernet:POAM:APS:BSIGnal:RECeived?

Description	This query returns the FlexE Path OAM received APS Bridged Signal. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX >Bridged Signal
Syntax	:FETCh:DATA:TELeom:FETHernet:POAM:APS:BSIGnal:RECeived?
Response Syntax	<Bridged Signal>
Response(s)	Bridged Signal: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Bridged Signal
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:BSIG:REC?
See Also	SOURce:DATA:TELeom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECeived?	
Description	This query returns the FlexE Path OAM received APS Request/State under CMCC (G873.1) standard. At *RST condition, this value is set to REQ_STATE_G8731_NR. Navigation Path: Functions > Path OAM APS > RX > Request/State
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECeived?
Response Syntax	<Request/State>
Response(s)	Request/State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request/State: REQ_STATE_G8731_NR: No request REQ_STATE_G8731_DNR: Do not revert REQ_STATE_G8731_RR: Reverse request REQ_STATE_G8731_EXER: Exercise REQ_STATE_G8731_WTR: Wait-to-restore REQ_STATE_G8731_MS: Manual switch REQ_STATE_G8731_SD: Signal degrade REQ_STATE_G8731_SF: Signal Fail REQ_STATE_G8731_FS: Forced switch REQ_STATE_G8731_LOP: Lockout of protection REQ_STATE_G8731_RES: Reserved
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:CMCC:REQS:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:ITU:REQState:RECeived?

Description	This query returns the FlexE Path OAM received APS Request/State under ITU(G8331) standard. At *RST condition, this value is set to REQ_STATE_G8331_NR. Navigation Path: Functions > Path OAM APS > RX > Request/State
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:APS:ITU:REQState:RECeived?
Response Syntax	<Request/State>
Response(s)	Request/State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request/State: REQ_STATE_G8331_NR: No request REQ_STATE_G8331_DNR: Do not revert REQ_STATE_G8331_RR: Reverse request REQ_STATE_G8331_EXER: Exercise REQ_STATE_G8331_WTR: Wait-to-restore REQ_STATE_G8331_MS: Manual switch REQ_STATE_G8331_SD: Signal degrade REQ_STATE_G8331_SF: Signal Fail REQ_STATE_G8331_FS: Forced switch REQ_STATE_G8331_LO: Lockout of protection REQ_STATE_G8331_RES: Reserved
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:ITU:REQS:REC?
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:RECEived?	
Description	This query returns the FlexE Path OAM received APS Protection Type byte A. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Protection Type > A
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:RECEived?
Response Syntax	<Byte A>
Response(s)	Byte A: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. returns Byte A: PROT_TYPE_A_N_CHAN: No APS Channel PROT_TYPE_A_CHAN: APS Channel
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:A:REC? Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:RECEived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte B. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Protection Type > B
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:RECEived?
Response Syntax	<Byte B>
Response(s)	Byte B: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. returns Byte B: PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge) PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:B:REC? Returns: PROT_TYPE_B_PERM_1_1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:RECEived?	
Description	This query returns the FlexE Path OAM received APS Protection Type byte D. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Protection Type > D
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:RECEived?
Response Syntax	<Byte D>
Response(s)	Byte D: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. returns Byte D: PROT_TYPE_D_UNIDIR: Unidirectional Switching PROT_TYPE_D_BIDIR: Bidirectional Switching
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:D:REC? Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:RECEived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte R. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Protection Type > R
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:RECEived?
Response Syntax	<Byte R>
Response(s)	Byte R: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. returns Byte R: PROT_TYPE_R_N_REV: Non-Revertive Operation PROT_TYPE_R_REV: Revertive Operation
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:R:REC? Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RESByte:RECeived?	
Description	This query returns the FlexE Path OAM received APS Reserved byte. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Reserved
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RESByte:RECeived?
Response Syntax	<Reserved Byte>
Response(s)	Reserved Byte: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Reserved Byte
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RESB:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:RECeived?

Description	This query returns the FlexE Path OAM received APS Requested Signal. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > RX > Requested Signal
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:RECeived?
Response Syntax	<Requested Signal>
Response(s)	Requested Signal: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Requested Signal
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RSIG:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?	
Description	This query returns the FlexE Path OAM APS RX message count. At *RST condition, this value is device dependent. Navigation Path: Functions > Path OAM APS > RX > APS - RX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns APS RX message count
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RX:MESS:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?

:FETCh:DATA:TELEcom:FETHernet:POAM:APS:TX:MESSage:COUNt?	
Description	This query returns the FlexE Path OAM APS TX message count. At *RST condition, this value is device dependent. Navigation Path: Functions > Path OAM APS > RX > APS - TX Count
Syntax	:FETCh:DATA:TELEcom:FETHernet:POAM:APS:TX:MESSage:COUNt?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns APS TX message count
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:TX:MESS:COUN?
See Also	FETCh:DATA:TELEcom:FETHernet:POAM:APS:RX:MESSage:COUNt?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENe rated	
Description	This command sets the FlexE Path OAM generated APS Bridged Signal. At *RST condition, this value is set to 0 Navigation Path: Functions > Path OAM APS > TX >Bridged Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated <wsp><Bridged Signal>
Parameter(s)	Bridged Signal: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Bridged Signal MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN? Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:BSIGnal:GENerated?

Description	This query returns the FlexE Path OAM generated APS Bridged Signal. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX >Bridged Signal
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:APS:BSIGnal:GENerated?[<wsp> <Bridged Signal Limits>]
Parameter(s)	Bridged Signal Limits: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the Bridged Signal Limits MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Bridged Signal>
Response(s)	Bridged Signal: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns: the Bridged Signal
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN? Returns 123
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated	
Description	This command sets the FlexE Path OAM generated APS Request/State under CMCC (G873.1) standard. At *RST condition, this value is set to REQ_STATE_G8731_NR Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated <wsp> <Request/State>
Parameter(s)	Request/State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Request/State: REQ_STATE_G8731_NR: No request REQ_STATE_G8731_DNR: Do not revert REQ_STATE_G8731_RR: Reverse request REQ_STATE_G8731_EXER: Exercise REQ_STATE_G8731_WTR: Wait-to-restore REQ_STATE_G8731_MS: Manual switch REQ_STATE_G8731_SD: Signal degrade REQ_STATE_G8731_SF: Signal Fail REQ_STATE_G8731_FS: Forced switch REQ_STATE_G8731_LOP: Lockout of protection
Response Syntax	<Bridged Signal>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN REQ_STATE_G8731_LOP SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN? Returns: REQ_STATE_G8731_LOP
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Request/State under CMCC (G873.1) standard. At *RST condition, this value is set to REQ_STATE_G8731_NR Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?
Response Syntax	<Request/State>
Response(s)	Request/State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request/State: REQ_STATE_G8731_NR: No request REQ_STATE_G8731_DNR: Do not revert REQ_STATE_G8731_RR: Reverse request REQ_STATE_G8731_EXER: Exercise REQ_STATE_G8731_WTR: Wait-to-restore REQ_STATE_G8731_MS: Manual switch REQ_STATE_G8731_SD: Signal degrade REQ_STATE_G8731_SF: Signal Fail REQ_STATE_G8731_FS: Forced switch REQ_STATE_G8731_LOP: Lockout of protection
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN REQ_STATE_G8731_LOP SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN? Returns: REQ_STATE_G8731_LOP
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGNAL:TYPE:GENerated

:SOURce:DATA:TELecom:FETHerNet:POAM:APS:CONFIguration:APPLY	
Description	This command apply trigger to configure all the APS configuration changes. This is an event so no *RST condition. Navigation Path: Functions > Path OAM APS > Apply Changes
Syntax	:SOURce:DATA:TELecom:FETHerNet:POAM:APS:CONFIguration:APPLY
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CONF:APPL

:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ENABLE

Description	This command enables/disables the FlexE Path OAM APS Function. At *RST condition, this value is set to OFF. Navigation Path: Functions > Path OAM APS > Path OAM APS
Syntax	:SOURce:DATA:TELEcom:FETHernet:POAM:APS:ENABLE <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ENAB ON SOUR:DATA:TEL:FETH:POAM:APS:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:FETHernet:POAM:DELay:ENABLE?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABLE?	
Description	This query returns the enable/disable status of the FlexE Path OAM APS Function. At *RST condition, this value is set to OFF. Navigation Path: Functions > Path OAM APS > Path OAM APS
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ENAB ON SOUR:DATA:TEL:FETH:POAM:APS:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELaY:ENABLE

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated

Description	This command sets the FlexE Path OAM generated APS Request/State under ITU (G8331) standard. At *RST condition, this value is set to REQ_STATE_G8331_NR Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated <wsp> <Request/State>
Parameter(s)	Request/State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Request/State: REQ_STATE_G8331_NR: No request REQ_STATE_G8331_DNR: Do not revert REQ_STATE_G8331_RR: Reverse request REQ_STATE_G8331_EXER: Exercise REQ_STATE_G8331_WTR: Wait-to-restore REQ_STATE_G8331_MS: Manual switch REQ_STATE_G8331_SD: Signal degrade REQ_STATE_G8331_SFW: Signal Fail on Working REQ_STATE_G8331_FS: Forced switch REQ_STATE_G8331_SFP: Signal Fail on Protection REQ_STATE_G8331_LO: Lockout of protection
Response Syntax	<Status>
Example(s)	OUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN REQ_STATE_G8331_LO SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN? Returns: REQ_STATE_G8331_LO

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENErated?	
Description	This query returns the FlexE Path OAM generated APS Request/State under ITU (G8331) standard. At *RST condition, this value is set to REQ_STATE_G8331_NR Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENErated?
Response Syntax	<Request/State>
Response(s)	Request/State: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request/State: REQ_STATE_G8331_NR: No request REQ_STATE_G8331_DNR: Do not revert REQ_STATE_G8331_RR: Reverse request REQ_STATE_G8331_EXER: Exercise REQ_STATE_G8331_WTR: Wait-to-restore REQ_STATE_G8331_MS: Manual switch REQ_STATE_G8331_SD: Signal degrade REQ_STATE_G8331_SF: Signal Fail REQ_STATE_G8331_FS: Forced switch REQ_STATE_G8331_LO: Lockout of protection
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN REQ_STATE_G8331_LO SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN? Returns: REQ_STATE_G8331_LO
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGNAL:TYPE:GENErated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte A. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > A
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated <wsp><Byte A>
Parameter(s)	Byte A: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Byte A: PROT_TYPE_A_N_CHAN: No APS Channel PROT_TYPE_A_CHAN: APS Channel
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN PROT_TYPE_A_N_CHAN SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN? Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Protection Type byte A. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > A
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated?
Response Syntax	<Byte A>
Response(s)	Byte A: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Byte A: PROT_TYPE_A_N_CHAN: No APS Channel PROT_TYPE_A_CHAN: APS Channel
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN PROT_TYPE_A_N_CHAN SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN? Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte B. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > B
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated <wsp> <Byte B>
Parameter(s)	Byte B: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Byte B: PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge) PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Response Syntax	<Byte A>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN PROT_TYPE_B_N_PERM_1_N SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN? Returns: PROT_TYPE_B_N_PERM_1_N
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Protection Type byte B. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > B
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated?
Response Syntax	<Byte B>
Response(s)	Byte B: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Byte B: PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge) PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN PROT_TYPE_B_N_PERM_1_N SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN? Returns: PROT_TYPE_B_N_PERM_1_N
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELeom:FETHernet:POAM:APS:PROTection:D:GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte D. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > D
Syntax	:SOURce:DATA:TELeom:FETHernet:POAM:APS:PROTection:D:GENerated <wsp><Byte D>
Parameter(s)	Byte D: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Byte D: PROT_TYPE_D_UNIDIR: Unidirectional Switching PROT_TYPE_D_BIDIR: Bidirectional Switching
Response Syntax	<Byte B>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN PROT_TYPE_D_UNIDIR SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN? Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELeom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Protection Type byte D. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > D
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated?
Response Syntax	<Byte D>
Response(s)	Byte D: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Byte D: PROT_TYPE_D_UNIDIR: Unidirectional Switching PROT_TYPE_D_BIDIR: Bidirectional Switching
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN PROT_TYPE_D_UNIDIR SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN? Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte R. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > R
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated <wsp><Byte R>
Parameter(s)	Byte R: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Byte R: PROT_TYPE_R_N_REV: Non-Revertive Operation PROT_TYPE_R_REV: Revertive Operation
Response Syntax	<Byte D>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN PROT_TYPE_R_N_REV SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN? Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Protection Type byte R. At *RST condition, this value is set to 0. Navigation Path: Functions > Path OAM APS > TX > Protection Type > R
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated?
Response Syntax	<Byte R>
Response(s)	Byte R: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Byte R: PROT_TYPE_R_N_REV: Non-Revertive Operation PROT_TYPE_R_REV: Revertive Operation
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN PROT_TYPE_R_N_REV SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN? Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

**:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GEN
erated**

Description	This command sets the FlexE Path OAM generated APS Reserved byte. At *RST condition, this value is set to 0 Navigation Path: Functions > Path OAM APS > TX > Reserved
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated <wsp><Reserved Byte>
Parameter(s)	Reserved Byte: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Reserved Byte MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Byte R>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN? Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated?	
Description	This query returns the FlexE Path OAM generated APS Reserved byte. At *RST condition, this value is set to 0 Navigation Path: Functions > Path OAM APS > TX > Reserved
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated?[<wsp><Reserved Byte Limits>]
Parameter(s)	Reserved Byte Limits: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the Reserved Byte Limits MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Reserved Byte>
Response(s)	Reserved Byte: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns: the Reserved Byte
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN? Returns 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

**:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENe
rated**

Description	This command sets the FlexE Path OAM generated APS Requested Signal. At *RST condition, this value is set to 0 Navigation Path: Functions > Path OAM APS > TX > Requested Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated <wsp><Requested Signal>
Parameter(s)	Requested Signal: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Requested Signal MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Reserved Byte>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN? Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENe rated?	
Description	This query returns the FlexE Path OAM generated APS Requested Signal. At *RST condition, this value is set to 0 Navigation Path: Functions > Path OAM APS > TX > Requested Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENe rated?[<wsp><Requested Signal Limit>]
Parameter(s)	Requested Signal Limit: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the Requested Signal MINimum: 0 MAXimum: 255 DEFault: 0
Response Syntax	<Requested Signal>
Response(s)	Requested Signal: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Requested Signal
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN 123 SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN? Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENe rated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard

Description	This command sets the FlexE Path OAM generated APS Request/State Interpretation standard used. At *RST condition, this value is set to APS_STANDARD_G873_1 Navigation Path: Functions > Path OAM APS > Request/State Interpretation
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard <wsp><Standard>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Request/State Interpretation standard APS_STANDARD_G873_1: CMCC (G873.1) standard APS_STANDARD_G8331: ITU (G8331) standard
Response Syntax	<Requested Signal>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:STAN APS_STANDARD_G8331 SOUR:DATA:TEL:FETH:POAM:APS:STAN? Returns: APS_STANDARD_G8331
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard?	
Description	This query returns the FlexE Path OAM generated APS Request/State Interpretation standard used. At *RST condition, this value is set to APS_STANDARD_G873_1 Navigation Path: Functions > Path OAM APS > Request/State Interpretation
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard?
Response Syntax	<Standard>
Response(s)	Standard: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Request/State Interpretation standard APS_STANDARD_G873_1: CMCC (G873.1) standard APS_STANDARD_G8331: ITU (G8331) standard
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:STAN APS_STANDARD_G8331 SOUR:DATA:TEL:FETH:POAM:APS:STAN? Returns: APS_STANDARD_G8331
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

OH - OTN

:SENSe:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?	
Description	This query returns the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes. Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number. RES21, RES22, RES23, RES49, RES410, RES411, RES412, RES413, RES414, RES115 TCM625, TCM626, TCM627, TCM528, TCM529, TCM5210, TCM4211, TCM4212,TCM4213, TCM331, TCM332, TCM137,TCM138, TCM139, TCM333, TCM234, TCM235, TCM236 PM310, PM311, PM312 EXP313, EXP314, GCC141, GCC142, GCC243, GCC244, GCC245 APSPCC45, APSPCC46, APSPCC47, APSPCC48 FTFL214 TCMACT24
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21
See Also	SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELeom:OTN:OH:ODU[1..n]:F:OVERhead?	
Description	This query returns the overhead byte values for non-standard rates OTU(1/2)F At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELeom:OTN:OH:ODU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes. TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM625, TCM626, TCM627, TCM4211, TCM4212, TCM4213 Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21
See Also	SOURce:DATA:TELeom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELeom:OTN:OH:ODU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the receiver. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SENSe:DATA:TELeom:OTN:OH:ODU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects ODU overhead bytes. APSPCC45, APSPCC46, APSPCC47, APSPCC48 EXP313, EXP314 FTFL214 GCC141, GCC142, GCC243, GCC244 PM310, PM311, PM312 PMTcm RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49 TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM528, TCM529, TCM625, TCM626, TCM627, TCM4211, TCM4212, TCM4213, TCM5210 TCMACT24 Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the ODU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU1:OVER? RES21
See Also	SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?	
Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. RES115 RES215 RES315 RES116 JC116 RES216 JC216 RES316 JC316e. NJO416 JC6. JC5 JC4 JC3 JC2 JC1 RES416 JC116 OMFI Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format. RES115, RES115 is selected as the overhead byte. RES215, RES215 is selected as the overhead byte. RES315, RES315 is selected as the overhead byte. RES116, RES116 is selected as the overhead byte. JC116, JC116 as is selected the overhead byte. RES216, RES216 is selected as the overhead byte. JC216, JC216 is selected as the overhead byte. RES316, RES316 is selected as the overhead byte. JC316, JC316 is selected as the overhead byte. NJO416, NJO416 is selected as overhead byte. JC6, JC6 is selected as the overhead byte. JC5, JC5 is selected as the overhead byte. JC4, JC4 is selected as the overhead byte. JC3, JC3 is selected as the overhead byte. JC2, JC2 is selected as the overhead byte. JC1, JC1 is selected as the overhead byte. RES416, RES416 is selected as the overhead byte. JC116, JC16 is selected as the overhead byte. OMFI, OMFI is selected as the overhead byte.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:E:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?	
Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the receiver. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > RX > PSI
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI? <wsp><PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:E:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. RES115 RES215 RES315 RES116 JC116 RES216 JC216 RES316 JC316 NJO416 JC6 JC5 JC4 JC3 JC2 JC1 RES416 JC116 OMF Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:F:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?

Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the receiver. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > RX > PSI
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI? <wsp><PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:F:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELeom:OTN:OH:OPU[1..n]:OVERhead?	
Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SENSe:DATA:TELeom:OTN:OH:OPU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. RES115 RES215 RES315 RES116 JC116 RES216 JC216 RES316 JC316 NJO416 JC6 JC5e. JC4 JC3 JC2 JC1 RES416 JC116. OMFI Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU:OVER? JC5
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?	
Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the receiver. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > RX > PSI NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI? <wsp> <PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Description	This query returns the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH NOTE: For :E[1..n];, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU3e1/2. OA111 OA112 OA113 OA214 OA215 OA216 MFAS17 SM18 SM19 SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates OTU(1/2)f At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU1e/2e. OA111: OA1 OA112: OA1 OA113: OA1 OA214: OA2 OA215: OA2 OA216: OA2 MFAS17: MFAS SM18: SM SM19: SM SM110: SM GCC0111: GCC0 GCC0112: GCC0 RES113: RES RES114: RES Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU1:F:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the receiver. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OTU overhead bytes. OA111 OA112 OA113 OA214 OA215 OA216 MFAS17 SM18 SM19 SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OTU overhead byte values in hexadecimal format. OA111, OA111 is selected as the overhead byte. OA112, OA112 is selected as the overhead byte. OA113, OA113 is selected as the overhead byte. OA214, OA214 is selected as the overhead byte. OA215, OA215 is selected as the overhead byte. OA216, OA216 is selected as the overhead byte. MFAS17, MFAS17 is selected as the overhead byte. SM18, SM18 is selected as the overhead byte. SM19, SM19 is selected as the overhead byte. SM110, SM110 is selected as the overhead byte. GCC0111, GCC0111 is selected as the overhead byte. GCC0112, GCC0112 is selected as the overhead byte. RES113, RES113 is selected as the overhead byte. RES114, RES114 is selected as the overhead byte.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU3:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:DEFault

Description	This command resets or overwrites the overhead byte values for overclocked rates OTU3e1/2. This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead	
Description	This command sets the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead <wsp><Overhead>,<Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU3e1/2. Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?	
Description	This query returns the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU3e1/2. Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:DEFault	
Description	This command resets or overwrites the overhead byte values for non-standard rates ODU(1/2)f This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:DEFault

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead

Description	This command sets the overhead byte values for non-standard rates ODU(1/2)f At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU1e/2e. Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:F:OVERhead?	
Description	This query returns the overhead byte values for non-standard rates ODU(1/2)f At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU1e/2e. Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

Description	This command sets the Optical Data Unit (ODU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects ODU overhead bytes. Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Data Unit (ODU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU1:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:OVERhead?	
Description	This query returns the Optical Data Unit (ODU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SOURce:DATA:TELEcom:OTN:OH:ODU[1..n]:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects ODU overhead bytes. Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number. APSPCC45, APSPCC46, APSPCC47, APSPCC48, EXP313, EXP314, FTFL214, GCC141, GCC142, GCC243, GCC244, PM310, PM311, PM312, PMTcm, RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49, TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the ODU overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:OVER RES21, #HF6 SOUR:DATA:TEL:OTN:OH:ODU1:OVER? RES21 Returns: 246
See Also	SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead

Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC6 JC5 JC4 JC3 JC2 JC1 RES416 JC116 NJO416 OMFI Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER JC6, #HF6
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?	
Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC6 JC5 JC4. JC3 JC2 JC1 RES416 JC116 NJO416 OMFI
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format. JC6, indicates JC6 as the overhead byte. JC5, indicates JC5 as the overhead byte. JC4, indicates JC4 as the overhead byte. JC3, indicates JC3 as the overhead byte. JC2, indicates JC2 as the overhead byte. JC1, indicates JC1 as the overhead byte. RES416, indicates RES416 as the overhead byte. JC116, indicates JC116 as the overhead byte. NJO416, indicates NJO416 as the overhead byte. OMFI, indicates OMFI as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER JC6, #HF6 SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER? JC6 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI	
Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI <wsp><PSI>, <Value>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI? 115 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?

Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI? <wsp><PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI? 115 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead	
Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC6 JC5 JC3 JC2 JC1 RES416 JC116 NJO416 OMFI Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER JC6, #HF6 SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER? JC6 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC6 JC5 JC4. JC3 JC2 JC1 RES416 JC116. NJO416 OMFI
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?	
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format. JC6, JC6 is selected as the overhead byte. JC5, JC5 is selected as the overhead byte. JC4, JC4 is selected as the overhead byte. JC3, JC3 is selected as the overhead byte. JC2, JC2 is selected as the overhead byte. JC1, JC1 is selected as the overhead byte. RES416, RES416 is selected as the overhead byte. JC116, JC116 is selected as the overhead byte. NJO416, NJO416 is selected as the overhead byte. OMFI, OMFI is selected as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER JC6, #HF6 SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER? JC6 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI

Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI <wsp><PSI>, <Value>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI? 115 Returns: #HF6
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?	
Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI? <wsp><PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI? 115 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead

Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead <wsp> <Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC1, JC116, JC2, JC216, JC3, JC316, JC4, JC5, JC6, NJO416, OMFI, PSI, RES115, RES116, RES215, RES216, RES315, RES316, RES416 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU3:OVER JC5, #HF6 SOUR:DATA:TEL:OTN:OH:OPU3:OVER? JC5 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?	
Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC1, JC116, JC2, JC216, JC3, JC316, JC4, JC5, JC6, NJO416, OMFI, PSI, RES115, RES116, RES215, RES216, RES315, RES316, RES416
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU overhead byte values in hexadecimal format. JC6, JC6 is selected as the overhead byte. JC5, JC5 is selected as the overhead byte. JC4, JC4 is selected as the overhead byte. JC3, JC3 is selected as the overhead byte. JC2, JC2 is selected as the overhead byte. JC1, JC1 is selected as the overhead byte. RES416, RES416 is selected as the overhead byte. JC116, JC116 is selected as the overhead byte. NJO416, NJO416 is selected as the overhead byte. OMFI, OMFI is selected as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU3:OVER JC5, #HF6 SOUR:DATA:TEL:OTN:OH:OPU3:OVER? JC5 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI	
Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI <wsp><PSI>, <Value>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:PSI? 115 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH > OTU/ODU > TX > PSI NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI? <wsp> <PSI>
Parameter(s)	PSI: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:PSI 115,#HF6 SOUR:DATA:TEL:OTN:OH:OPU1:PSI? 115 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead	
Description	This command sets the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU3e1/2. OA111 OA112 OA113 OA214 OA215 OA216 MFAS17 SM18 SM19 SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?	
Description	This query returns the overhead byte values for overclocked rates OTU3e1/2. At *RST condition, this value is device dependent. Navigation Path: Functions > OH NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELEcom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU3e1/2. OA111 OA112 OA113 OA214 OA215. OA216 MFAS17 SM18 SM19. SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:DEFault	
Description	This command resets or overwrites the overhead byte values for non-standard rates OTU(1/2)f This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > OH Note: This command is obsolete now, this will get removed in the next release. Correct command to use is SOUR:DATA:TEL:OTN:OH:REStore:DEFault
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:DEFault

:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:F:OVERhead

Description	This command sets the overhead byte values for non-standard rates OTU(1/2)f At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU1e/2e. OA111: OA1 OA112: OA1 OA113: OA1 OA214: OA2 OA215: OA2 OA216: OA2 MFAS17: MFAS SM18: SM SM19: SM SM110: SM GCC0111: GCC0 GCC0112: GCC0 RES113: RES RES114: RES Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead	
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates OTU(1/2)f At *RST condition, this value is device dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:F:OVERhead? <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects overhead bytes for non standard rates OTU1e/2e. OA111: OA1 OA112: OA1 OA113: OA1 OA214: OA2 OA215: OA2 OA216: OA2 MFAS17: MFAS SM18: SM SM19: SM SM110: SM GCC0111: GCC0 GCC0112: GCC0 RES113: RES RES114: RES Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU2:F:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:OVERhead

Description	This command sets the Optical Transport Unit (OTU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OTU overhead bytes. OA111 OA112 OA113 OA214 OA215 OA216 MFAS17 SM18 SM19 SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Transport Unit (OTU) overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead	
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU1:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELeom:OTN:OH:OTU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OTU overhead bytes. OA111 OA112 OA113 OA214 OA215 OA216 MFAS17 SM18 SM19 SM110 GCC0111 GCC0112 RES113 RES114 Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?	
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the OTU overhead byte values in hexadecimal format. OA111, OA111 is selected as the overhead byte. OA112, OA112 is selected as the overhead byte. OA113, OA113 is selected as the overhead byte. OA214, OA214 is selected as the overhead byte. OA215, OA215 is selected as the overhead byte. OA216, OA216 is selected as the overhead byte. MFAS17, MFAS17 is selected as the overhead byte. SM18, SM18 is selected as the overhead byte. SM19, SM19 is selected as the overhead byte. SM110, SM110 is selected as the overhead byte. GCC0111, GCC0111 is selected as the overhead byte. GCC0112, GCC0112 is selected as the overhead byte. RES113, RES113 is selected as the overhead byte. RES114, RES114 is selected as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU1:OVER? OA111 Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELeom:OTN:OH:REStore:DEFault

Description	This command resets or overwrites the OTN overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > OH > Default OTN OH
Syntax	:SOURce:DATA:TELeom:OTN:OH:REStore:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:REStore:DEFault
See Also	SOURce:DATA:TELeom:GFP:OH:REStore:DEFault SOURce:DATA:TELeom:OTN:REStore:DEFault

OH - SONET/SDH

:SENSe:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?	
Description	This query returns the multiplexer overhead byte values in decimal format for the receiver. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > Transport OH > MS > RX
Syntax	:SENSe:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the multiplexer overhead channel number for the receiver. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the multiplexer overhead bytes. H1 to H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4,D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) S1: Synchronization status M0: Remote Error Indicator - Line (REI-L) M1: Remote Error Indicator - Line (REI-L) E2: Orderwire
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the multiplexer overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDH:OH:MS:OVER1? 1, H1
See Also	SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead

:SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Description	This query returns the regenerator overhead byte values in decimal format for the receiver. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > Transport OH > RS > RX
Syntax	:SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead channel number for the receiver. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Regenerator Overhead bytes for the receiver. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace Z0: Growth B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC)
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the regenerator overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDH:OH:RS:OVER1? 1, A1
See Also	SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?	
Description	This query returns the High Order Path (HOP) overhead values in hexadecimal format for the receiver when disabled. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > RX > STS Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > RX > AU
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values for the receiver. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: C2 G1: G1 F2: F2 H4: H4 Z3: Z3 Z4: Z4 N1: N1 F3: F3 K3: K3 H1: H1 H2: H2 H3: H3
Response Syntax	<Value>

:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the High Order Path (HOP) overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDHS:OH:HOP:OVER? J1
See Also	SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]

:SENSe:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?	
Description	This query returns the Low Order Path (LOP) overhead values in hexadecimal format for the receiver when disabled. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > RX > VT Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > RX > TU
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:LOP:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Low Order Path (LOP) overhead byte for the receiver. V5: VT Path Overhead. J2: VT Path Trace. Z6: VT Tandem Connection Monitoring. Z7: Extended Signal Label. N2: Network Operator Byte. K4: Extended Signal Label.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Low Order Path (LOP) overhead byte value for the receiver in hexadecimal format..
Example(s)	SENS:DATA:TEL:SDHS:OH:LOP:OVER? V5
See Also	SENSe:DATA:TELecom:SDHSONet:OH:HOP:OVERhead?

:SENSe:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in hexadecimal format for the receiver when disabled. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > RX > TU3
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: Path Signal Label. G1: Path Status. F2: User Channel. H4: Multiframe Indicator. Z3: Growth. Z4: Growth. N1: Tandem Connection Monitoring. F3: F3 K3: K3
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Low Order Path (LOPTU) overhead byte value for the receiver in hexadecimal format..
Example(s)	SENS:DATA:TEL:SDHS:OH:LOPT:OVER? J1
See Also	SENSe:DATA:TELecom:SDHSONet:OH:HOP:OVERhead?

:SENSe:DATA:TELeom:SONet:OH:LINE:OVERhead?

Description	This query returns the line overhead byte values in decimal format for the receiver. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > RX
Syntax	:SENSe:DATA:TELeom:SONet:OH:LINE:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the line overhead timeslot number for the receiver. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the line overhead bytes. H1, H2, H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC). S1: Synchronization status E2: Orderwire Z1 and Z2: Growth Byte is specified in two ways. In first method standard names are used. Ex: A1, A2. In second method an UDrc notation is used, where r is the numerical value of the bytes row in the transport overhead and c is the numerical value of the bytes column in the transport overhead. Ex:UD11, UD12. M1: Remote Error Indicator - Line (REI-L) M0: Remote Error Indicator - Line (REI-L)
Response Syntax	<Value>

:SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the line overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SON:OH:LINE:OVER? 1, D4
See Also	SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead?

:SENSe:DATA:TELeom:SONet:OH:SECTion:OVERhead?	
Description	This query returns the section overhead byte values in decimal format for the receiver. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > RX
Syntax	:SENSe:DATA:TELeom:SONet:OH:SECTion:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the section overhead timeslot number for the receiver. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the section overhead bytes for the receiver. A1: F6 hexadecimal value for A1 A2: 28 hexadecimal value for A2 J0: J0 trace B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC) Z0: Growth
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the section overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SON:OH:SECT:OVER? 1, A1
See Also	SENSe:DATA:TELeom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n]

Description	This command sets the multiplexer overhead byte values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > > SDH > TX > Transport OH > MS
Syntax	:SOURce:DATA:TELEcom:SDH:OH:MS:OVERhead[1..n] <wsp><Channel>, <Overhead>,[<Value>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the multiplexer overhead channel number for transmitter. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the multiplexer overhead bytes. H1 to H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) S1: Synchronization status M0: Remote Error Indicator - Line (REI-L) M1: Remote Error Indicator - Line (REI-L) E2: Orderwire Value: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the multiplexer overhead byte values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1 1, H1, #HF6 SOUR:DATA:TEL:SDH:OH:MS:OVER1? 1, H1 Returns: 246
See Also	SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault	
Description	This command resets the line overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > MS > Default
Syntax	:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the multiplexer overhead channel number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the multiplexer overhead bytes. H1 to H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) S1: Synchronization status M0: Remote Error Indicator - Line (REI-L) E2: Orderwire
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1:DEF 1, H1
See Also	SOURce:DATA:TELecom:SONet:OH:RS:OVERhead[1..n]:DEFault

:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?

Description	This query returns the multiplexer overhead byte values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > > SDH > TX > Transport OH > MS
Syntax	:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the multiplexer overhead channel number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the multiplexer overhead bytes. H1 to H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) S1: Synchronization status M0: Remote Error Indicator - Line (REI-L) M1: Remote Error Indicator - Line (REI-L) E2: Orderwire
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the multiplexer overhead byte value.
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1 1, H1, #HF6 SOUR:DATA:TEL:SDH:OH:MS:OVER1? 1, H1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead

:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]	
Description	This command sets the regenerator overhead byte values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS
Syntax	:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n] <wsp><Channel>, <Overhead>,[<Value>]
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead channel number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Regenerator Overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace Z0: Growth B1: Bit Interleaved Parity code (BIP-8). E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC) Value: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead byte values in hexadecimal format.

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1 1, A1, #HF6 SOUR:DATA:TEL:SDH:OH:RS:OVER1? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]:DEFault

Description	This command resets the Regenerator Section overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS > Default
Syntax	:SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]:DEFault <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead channel number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Regenerator Section Overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace Z0: Growth B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1:DEF 1, A1
See Also	SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead:DEFault

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Description	This query returns the regenerator overhead byte values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS
Syntax	:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead channel number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Regenerator Section Overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace Z0: Growth B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC)
Response Syntax	<Value>

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the regenerator section overhead byte value for transmitter.
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1 1, A1, #HF6 SOUR:DATA:TEL:SDH:OH:RS:OVER1? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead

:SOURce:DATA:TELecom:SDHSonet:OH:DISable:OVERwrite

Description	This command disable all overwrites for SONET/SDH BERT. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SONET > TX > Disable all Overwrites. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > Disable all Overwrites.
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:DISable:OVERwrite
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:DIS:OVER
See Also	SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]:DEFAULT

:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead	
Description	This command sets the High Order Path (HOP) overhead values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU
Syntax	:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: C2 G1: G1 F2: F2 H4: H4 Z3: Z3 Z4: Z4 N1: N1 F3: F3 K3: K3 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the HOP overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER C2,#H02 SOUR:DATA:TEL:SDHS:OH:HOP:OVER? C2 Returns: 2
See Also	SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]?

**:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFa
ult**

Description	This command resets the HOP overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS > Default Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: C2 G1: G1 F2: F2 H4: H4 Z3: Z3 Z4: Z4 N1: N1 F3: F3 K3: K3
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER:DEF J1
See Also	SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault

:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead?	
Description	This query returns the High Order Path (HOP) overhead values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU
Syntax	:SOURce:DATA:TELEcom:SDHSonet:OH:HOP:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: C2 G1: G1 F2: F2 H4: H4 Z3: Z3 Z4: Z4 N1: N1 F3: F3 K3: K3
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the High Order Path (HOP) overhead byte value.
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER C2,#H02 SOUR:DATA:TEL:SDHS:OH:HOP:OVER? C2 Returns: 2
See Also	SOURce:DATA:TELEcom:SDH:OH:RS:OVERhead[1..n]?

:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead

Description	This command sets the Low Order Path (LOP) overhead values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > TX > VT Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Low Order Path (LOP) overhead byte. V5: VT Path Overhead. J2: VT Path Trace. Z6: VT Tandem Connection Monitoring. Z7: Extended Signal Label. N2: Network Operator Byte. K4: Extended Signal Label. Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Low Order Path (LOP) overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER V5, #H01 SOUR:DATA:TEL:SDHS:OH:LOP:OVER? V5 Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?

:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead:DEFault	
Description	This command resets the LOP overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > TX > VT > Default Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > TU > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead:DEFault <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Low Order Path (LOP) overhead byte for the receiver. V5: VT Path Overhead. J2: VT Path Trace. Z6: VT Tandem Connection Monitoring. Z7: Extended Signal Label. N2: Network Operator Byte. K4: Extended Signal Label.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER:DEF V5
See Also	SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault

:SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > SOnet/SDH BERT > Functions > OH > OC > TX > VT Navigation Path: Setup > SOnet/SDH BERT > Functions > OH > STM > TX > TU
Syntax	:SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Low Order Path (LOP) overhead byte. V5: VT Path Overhead. J2: VT Path Trace. Z6: VT Tandem Connection Monitoring. Z7: Extended Signal Label. N2: Network Operator Byte. K4: Extended Signal Label.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Low Order Path (LOP) overhead byte value in hexadecimal format..
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER V5, #H01 SOUR:DATA:TEL:SDHS:OH:LOP:OVER? V5 Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:OH:LOP:OVERhead

:SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead	
Description	This command sets the Low Order Path (LOP) overhead values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU3
Syntax	:SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: Path Signal Label. G1: Path Status. F2: User Channel. H4: Multiframe Indicator. Z3: Growth. Z4: Growth. N1: Tandem Connection Monitoring. F3: F3 K3: K3 Value: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the LOP(TU3) overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER J1, #H01 SOUR:DATA:TEL:SDHS:OH:LOPT:OVER? J1 Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:OH:LOPTu:OVERhead?

:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead:DE Fault	
Description	This command resets the LOP overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > TU3 > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead:DEfault <wsp> <Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values for the receiver. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: Path Signal Label. G1: Path Status. F2: User Channel. H4: Multiframe Indicator. Z3: Growth. Z4: Growth. N1: Tandem Connection Monitoring. F3: F3- K3: K3
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPTu:OVER:DEF J1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEfault J1

:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?	
Description	This query returns the Low Order Path (LOP) overhead values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU3
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead? <wsp><Overhead>
Parameter(s)	Overhead: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the High Order Path (HOP) overhead values. J1: J1 trace. B3: Bit Interleaved Parity code (BIP-8). C2: Path Signal Label. G1: Path Status. F2: User Channel. H4: Multiframe Indicator. Z3: Growth. Z4: Growth. N1: Tandem Connection Monitoring. F3: F3 K3: K3
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Low Order Path (LOPTU) overhead byte value in hexadecimal format.
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER J1, #H01 SOUR:DATA:TEL:SDHS:OH:LOPT:OVER? J1 Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead

:SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault

Description	This command it restores the default application. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > Default all OH Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Default all OH
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:RES:DEF
See Also	SOURce:DATA:TELecom:GFP:OH:REStore:DEFault SOURce:DATA:TELecom:OTN:REStore:DEFault

:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead	
Description	This command sets the line overhead byte values in hexadecimal format. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > TX
Syntax	:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead <wsp><Timeslot>, <Overhead>,[<Value>]
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the line overhead timeslot number for transmitter. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the line overhead bytes. H1 to H3: respectively H1, H2, or H3 B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) Z1 and Z2: Respectively Z1 or Z2 for Growth byte M1: Remote Error Indicator - Line (REI-L) M0: Remote Error Indicator - Line (REI-L) S1: S1 byte Value: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the line overhead byte values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER 1, D4,#H00 SOUR:DATA:TEL:SON:OH:LINE:OVER? 1, D4 Returns: 0
See Also	SOURce:DATA:TELEcom:SONet:OH:SECTion:OVERhead?

:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault

Description	This command resets the line overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > LINE > Default
Syntax	:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the line overhead timeslot number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the line overhead bytes. Selects the line overhead bytes. H1 to H3: Respectively H1, H2, or H3 for Pointer B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) Z1 and Z2: Respectively Z1 or Z2 for Growth byte M1: Remote Error Indicator - Line (REI-L) M0: Remote Error Indicator - Line (REI-L) S1: S1 byte
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER:DEF 1, H1
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFault

:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead?	
Description	This query returns the line overhead byte values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > TX
Syntax	:SOURce:DATA:TELEcom:SONet:OH:LINE:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the line overhead timeslot number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the line overhead bytes. H1 to H3: Respectively H1, H2, or H3 B2: Bit Interleaved Parity code (BIP-8) K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS) D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC) Z1 and Z2: Respectively Z1 or Z2 for Growth byte M1: Remote Error Indicator - Line (REI-L) M0: Remote Error Indicator - Line (REI-L) S1: S1 byte
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the line overhead byte value.
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER 1, D4,#H00 SOUR:DATA:TEL:SON:OH:LINE:OVER? 1, D4 Returns: 0
See Also	SOURce:DATA:TELEcom:SONet:OH:SECTion:OVERhead

:SOURce:DATA:TELecom:SONet:OH:SECTIon:OVERhead

Description	This command sets the section overhead byte values in hexadecimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > TX
Syntax	:SOURce:DATA:TELecom:SONet:OH:SECTIon:OVERhead <wsp><Timeslot>, <Overhead>,[<Value>]
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the section overhead timeslot number for transmitter. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the section overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC) Z0: Growth Value: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the section overhead byte values in hexadecimal format.

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead	
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER 1, A1, #HF6 SOUR:DATA:TEL:SON:OH:SECT:OVER? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFAult

Description	This command resets the section overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > SECTION > Default
Syntax	:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFAult <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the section overhead timeslot number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the section overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC) Z0: Growth
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER:DEF 1,A1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEF

:SOURce:DATA:TELEcom:SONet:OH:SECTIon:OVERhead?	
Description	This query returns the section overhead byte values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > TX
Syntax	:SOURce:DATA:TELEcom:SONet:OH:SECTIon:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	Timeslot: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the section overhead timeslot number. Overhead: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the section overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC) Z0: Growth
Response Syntax	<Value>

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the section overhead byte value.
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER 1, A1, #HF6 SOUR:DATA:TEL:SON:OH:SECT:OVER? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead

OH - GFP-F/GFP-T

:FETCh:DATA:TELecom:GFP:OH:DFRames?	
Description	This query returns selection of the Client Data Frames. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Client Data Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Client Data
Syntax	:FETCh:DATA:TELecom:GFP:OH:DFRames? <wsp><Dframes>
Parameter(s)	Dframes: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Data Frames. PLI CHEC PTI PFI EXI UPI THEC CID SPARe EHEC
Response Syntax	<Dframes>
Response(s)	Dframes: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of Data Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:DFR? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI

:FETCh:DATA:TELecom:GFP:OH:MFRames?

Description	This query returns selection of the Client Management Frames. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Client Management Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Client Management
Syntax	:FETCh:DATA:TELecom:GFP:OH:MFRames? <wsp><Mframes>
Parameter(s)	Mframes: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Management Frames. PLI CHEC PTI PFI EXI UPI THEC CID SPARe EHEC
Response Syntax	<Mframes>
Response(s)	Mframes: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of Management Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:MFRames? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

:FETCh:DATA:TELecom:GFP:OH:RPTiframes?	
Description	This query returns selection of Reserved PTI Frames. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Reserved PTI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Reserved PTI
Syntax	:FETCh:DATA:TELecom:GFP:OH:RPTiframes? <wsp><Rptiframes>
Parameter(s)	Rptiframes: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Reserved PTI Frames. PLI CHEC PTI PFI EXI UPI THEC CID SPARe EHEC
Response Syntax	<Rptiframes>
Response(s)	Rptiframes: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of Reserved PTI Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:RPT? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:CID

:SOURce:DATA:TELEcom:GFP:OH:DEFault

Description	This command resets or overwrites the overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Default Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Default
Syntax	:SOURce:DATA:TELEcom:GFP:OH:DEFault <wsp><Frames>, <Bytes>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Frame Type. DFRames MFRames Bytes: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Data Frames Bytes. PTI PFI EXI UPI CID SPARe
Response Syntax	<Rptiframes>
Example(s)	SOUR:DATA:TEL:GFP:OH:DEF DFR, PTI
See Also	SOURce:DATA:TELEcom:GFP:OH:REStore:DEFault

:SOURce:DATA:TELEcom:GFP:OH:EHEader:CID	
Description	This command sets the Channel ID. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > CID Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > CID
Syntax	:SOURce:DATA:TELEcom:GFP:OH:EHEader:CID <wsp><Frames>, <CID>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames CID: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects Channel Id between 0000 0000 to 1111 1111. MAXimum,sets Channed Id to maximum value. MINimum,sets Channed Id to minimum value.
Response Syntax	<Rptiframes>
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:CID DFR,#B0 SOUR:DATA:TEL:GFP:OH:EHE:CID? DFR Returns: 0
See Also	SOURce:DATA:TELEcom:GFP:OH:THEader:UPI?

:SOURce:DATA:TELecom:GFP:OH:EHEader:CID?

Description	This query returns the Channel ID. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > CID Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > CID
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:CID? <wsp> <Frames>,[<CID>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames CID: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current CID value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<CID>
Response(s)	CID: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Channel ID.
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:CID DFR,#B0 SOUR:DATA:TEL:GFP:OH:EHE:CID? DFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe	
Description	This command sets the Extension Header Spare Field. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > Spare Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > Spare
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe <wsp> <Frames> , <Spare>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Spare: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Spare value between 0000 0000 and 1111 1111 MAXimum,sets Spare to maximum value. MINimum,sets Spare to minimum value.
Response Syntax	<CID>
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:SPAR DFR,#B0 SOUR:DATA:TEL:GFP:OH:EHE:SPAR? DFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

:SOURce:DATA:TELeom:GFP:OH:EHEader:SPARe?

Description	This query returns the the Extension Header Spare Field value. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > Spare Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > Spare
Syntax	:SOURce:DATA:TELeom:GFP:OH:EHEader:SPARe? <wsp><Frames>,[<Spare>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Spare: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current spare value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<SPARe>
Response(s)	SPARe: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the SPARe value.
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:SPAR DFR,#B0 SOUR:DATA:TEL:GFP:OH:EHE:SPAR? DFR Returns: 0
See Also	SOURce:DATA:TELeom:GFP:OH:EHEader:CID

:SOURce:DATA:TELecom:GFP:OH:REStore:DEFault	
Description	This command resets or overwrites the overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Default All OH Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Default All OH
Syntax	:SOURce:DATA:TELecom:GFP:OH:REStore:DEFault
Response Syntax	<SPARe>
Example(s)	SOUR:DATA:TEL:GFP:OH:REStore:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead? SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault

:SOURce:DATA:TELEcom:GFP:OH:THEader:EXI

Description	This command sets the Extension Header Identifier. At *RST condition, this value is 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > EXI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > EXI
Syntax	:SOURce:DATA:TELEcom:GFP:OH:THEader:EXI <wsp><Frames>, <Exi>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Exi: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the EXI value between 0000 and 1111 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<SPARe>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:EXI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:EXI? MFR Returns: 0
See Also	SOURce:DATA:TELEcom:GFP:OH:EHEader:SPARe?

:SOURce:DATA:TELecom:GFP:OH:THEader:EXI?	
Description	This query returns the value of the Extension Header Identifier. At *RST condition, this value is 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > EXI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > EXI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:EXI? <wsp><Frames>,[<EXI>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames EXI: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current EXI value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Exi>
Response(s)	Exi: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Extension Header Identifier value.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:EXI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:EXI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:UPI

:SOURce:DATA:TELecom:GFP:OH:THEader:PFI

Description	This command sets the Payload FCS Indicator. At *RST condition, this value is 0. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PFI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PFI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PFI <wsp> <Frames>, <Pfi>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Pfi: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the PFI value between 0 and 1 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Exi>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PFI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:PFI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PTI?

:SOURce:DATA:TELEcom:GFP:OH:THEader:PFI?	
Description	This query returns the Payload FCS Indicator. At *RST condition, this value is 0. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PFI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PFI
Syntax	:SOURce:DATA:TELEcom:GFP:OH:THEader:PFI? <wsp><Frames>,[<PFI>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames PFI: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current PTI value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Pfi>
Response(s)	Pfi: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Payload FCS Indicator.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PFI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:PFI? MFR Returns: 0
See Also	SOURce:DATA:TELEcom:GFP:OH:THEader:PTI

:SOURce:DATA:TELecom:GFP:OH:THEader:PTI

Description	This command sets the Type of GFP Client Frame. At *RST condition, this value is 000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PTI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PTI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PTI <wsp> <Frames>,[<Pti>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Pti: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the PTI value between 000 and 111 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Pfi>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PTI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:PTI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI?

:SOURce:DATA:TELecom:GFP:OH:THEader:PTI?	
Description	This query returns the Type of GFP Client Frame. At *RST condition, this value is 000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PTI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PTI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PTI? <wsp><Frames>,[<PTI>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames PTI: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current PFI value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Pti>
Response(s)	Pti: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Type of GFP Client Frame.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PTI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:PTI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI

:SOURce:DATA:TELecom:GFP:OH:THEader:UPI

Description	This command sets the User Payload Identifier. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > UPI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > UPI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:UPI <wsp><Frames>, <Upi>
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames Upi: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the UPI value between 0000 0000 and 1111 1111 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Pti>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:UPI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:UPI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

:SOURce:DATA:TELecom:GFP:OH:THEader:UPI?	
Description	This query returns the values of User Payload Identifier. At *RST condition, this value is 0000 0000. Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > UPI Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > UPI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:UPI? <wsp><Frames>,[<UPI>]
Parameter(s)	Frames: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Client Framing Types. DFRames MFRames UPI: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current UPI value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Upi>
Response(s)	Upi: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the User Payload Identifier value.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:UPI MFR,#B0 SOUR:DATA:TEL:GFP:OH:THE:UPI? MFR Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:CID

OH - FlexE (TX/RX)

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Description	This command returns the OH bytes for selected PHY and Frame. At *RST condition, this value is device dependant. Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:BYTE? <wsp><PHY/Instance>, <Frame>, <OH Byte>

:SENSe:DATA:TELecom:FETHerNet:OH:BYTE?

Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame number OH Byte: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH byte value B1SH: Block 1 - SH byte B1TYPE: Block 1 - Type byte B1RPF: Block 1 - RPF bit B1SC: Block 1 - SC bit B1GROUP: Block 1 - Group byte B1OCODE: Block 1 - O code byte B1OXO: Block 1 - Oxo code byte B2SH: Block 2 - SH byte B2PHY: Block 2 - PHY number byte B2RES1: Block 2 - Reserved byte 1 B2RES2: Block 2 - Reserved byte 2 B2RES3: Block 2 - Reserved byte 3 B2RES4: Block 2 - Reserved byte 4 B2RES5: Block 2 - Reserved byte 5 B2RES6: Block 2 - Reserved byte 6
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:SENSe:DATA:TELecom:FETHerNet:OH:BYTE?

Parameter(s)	B3SH: Block 3 - SH byte
	B3CLRES1: Block 3 - Client Reserved byte 1
	B3CLRES2: Block 3 - Client Reserved byte 2
	B3CLRES3: Block 3 - Client Reserved byte 3
	B3CLRES4: Block 3 - Client Reserved byte 4
	B3RES1: Block 3 - Reserved byte 1
	B3RES2: Block 3 - Reserved byte 2
	B3CRC1: Block 3 - CRC-16 first byte
	B3CRC2: Block 3 - CRC-16 second byte
	B4SH: Block 4 - SH byte
	B4MCS1: Block 4 - Management Channel - Section byte 1
	B4MCS2: Block 4 - Management Channel - Section byte 2
	B4MCS3: Block 4 - Management Channel - Section byte 3
	B4MCS4: Block 4 - Management Channel - Section byte 4
	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8

:SENSe:DATA:TELecom:FETHerNet:OH:BYTE?

Parameter(s)	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3
	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8
	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7
	B5RES8: Block 5 - Reserved byte 8
	B6SH: Block 6 - SH byte
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3

Parameter(s)

Power Blazer/NetBlazer

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B8SH: Block 8 - SH byte B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1 B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2 B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3 B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4 B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5 B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6 B8MCSTS7: Block 8 - Management Channel - Shim to Shim byte 7 B8MCSTS8: Block 8 - Management Channel - Shim to Shim byte 8 B8RES1: Block 8 - Reserved byte 1 B8RES2: Block 8 - Reserved byte 2 B8RES3: Block 8 - Reserved byte 3 B8RES4: Block 8 - Reserved byte 4 B8RES5: Block 8 - Reserved byte 5 B8RES6: Block 8 - Reserved byte 6 B8RES7: Block 8 - Reserved byte 7 B8RES8: Block 8 - Reserved byte 8
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:BYTE? 2,2,B3RES1 Returns: 255
See Also	SENSe:DATA:TELecom:FETHernet:OH? SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP? SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELeom:FETHernet:OH:CLient:CALEndar?

Description	This query returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client ID, List of Occupied Calendar Slots) Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 3 - Client Calendar
Syntax	:SENSe:DATA:TELeom:FETHernet:OH:CLient:CALEndar? <wsp><PHY>, <Calendar>
Parameter(s)	PHY: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number Calendar: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Calendar Value. A: Calendar A B: Calendar B
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client ID, List of Occupied Calendar Slots) (1,(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39))
Example(s)	SOUR:DATA:TEL:FETH:OH:CLI:CAL? 1,A
See Also	SOURce:DATA:TELeom:FETHernet:CLient:CALEndar:DElete

:SENSe:DATA:TELecom:FETHernet:OH:FMAP?	
Description	This query returns the byte value for particular frame in FlexE Map. At *RST condition, this value is device dependant. Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 2 - FlexE Map
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:FMAP? <wsp><PHY/Instance>, <Frame>
Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame Number
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:FMAP? 1,1 Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH? SENSe:DATA:TELecom:FETHernet:OH:BYTE? SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP?

Description	This query returns the byte value for particular frame in PHY Map. At *RST condition, this value is device dependant. Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 2 - PHY Map
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP? <wsp><PHY>, <Frame>
Parameter(s)	PHY: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY number Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame Number
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:PHY:MAP? 1,1 Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH? SENSe:DATA:TELecom:FETHernet:OH:BYTE? SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELecom:FETHernet:OH:REServed?	
Description	This query returns the OH bytes for Block 1 Reserved. At *RST condition, this value is device dependant. Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:REServed? <wsp> <Instance>, <Reserved bit>
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the instance number Reserved bit: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the reserved bit B1RES1 block 1 (bit 8) Reserved B1RES2 block 1 (bit 9) Reserved B1RES3 block 1 (bit 10) Reserved B1RES4 block 1 (bit 11) Reserved
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the Reserved byte value.
Example(s)	SENS:DATA:TEL:FETH:OH:RES? 1,B1RES1
See Also	SOURce:DATA:TELecom:FETHernet:OH SOURce:DATA:TELecom:FETHernet:OH:BYTE

:SENSe:DATA:TELecom:FETHernet:OH?

Description	This query gets CR and CA bits for Block 3 and C bit for Block 1/2/3. At *RST condition, this value is set to #HA Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1/2/3 - C/CR/CA
Syntax	:SENSe:DATA:TELecom:FETHernet:OH? <wsp> <Calendar>
Parameter(s)	Calendar: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH byte value CR: Block 3 CR bit CA: Block 3 CA bit B1C: Block 1 C bit B2C: Block 2 C bit B3C: Block 3 C bit
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Calendar value. A, Calender is A B, Calender is B
Example(s)	SENS:DATA:TEL:FETH:OH? CR Returns: A
See Also	SENSe:DATA:TELecom:FETHernet:OH:BYTE? SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP? SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SOURce:DATA:TELEcom:FETHernet:OH	
Description	This command sets the CR and CA bytes for Block 3. At *RST condition, this value is set to #HA Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - CR/CA
Syntax	:SOURce:DATA:TELEcom:FETHernet:OH <wsp><Calendar>, <Value>
Parameter(s)	Calendar: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH byte value CR: Block 3 CR byte CA: Block 3 CA byte Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. A Sets A B Sets B
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:OH CR,A
See Also	SOURce:DATA:TELEcom:FETHernet:OH:BYTE SOURce:DATA:TELEcom:FETHernet:OH:REserved

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Description	This command sets the OH bytes for selected PHY and Frame. At *RST condition, this value is set to #H00 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:BYTE <wsp><PHY/Instance>, <Frame>, <OH Byte>,[<Value>]

:SOURce:DATA:TELEcom:FETHernet:OH:BYTE

Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame number OH Byte: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH byte value B2RES1: Block 2 - Reserved byte 1 B2RES2: Block 2 - Reserved byte 2 B2RES3: Block 2 - Reserved byte 3 B2RES4: Block 2 - Reserved byte 4 B2RES5: Block 2 - Reserved byte 5 B2RES6: Block 2 - Reserved byte 6 B3CLRES1: Block 3 - Client Reserved byte 1 B3CLRES2: Block 3 - Client Reserved byte 2 B3CLRES3: Block 3 - Client Reserved byte 3 B3CLRES4: Block 3 - Client Reserved byte 4 B3RES1: Block 3 - Reserved byte 1 B3RES2: Block 3 - Reserved byte 2 B4SH: Block 4 - SH byte B4MCS1: Block 4 - Management Channel - Section byte 1 B4MCS2: Block 4 - Management Channel - Section byte 2 B4MCS3: Block 4 - Management Channel - Section byte 3
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:SOURce:DATA:TELEcom:FETHerNet:OH:BYTE

Parameter(s)	B4MCS4: Block 4 - Management Channel - Section byte 4
	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8
	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3
	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8
	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7
	B5RES8: Block 5 - Reserved byte 8

:SOURce:DATA:TELEcom:FETHerNet:OH:BYTE

Parameter(s)	B6SH: Block 6 - SH byte
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3
	B6RES4: Block 6 - Reserved byte 4
	B6RES5: Block 6 - Reserved byte 5
	B6RES6: Block 6 - Reserved byte 6
	B6RES7: Block 6 - Reserved byte 7
	B6RES8: Block 6 - Reserved byte 8
	B6SC1: Block 6 - Synchronization Channel 1
	B6SC2: Block 6 - Synchronization Channel 2
	B6SC3: Block 6 - Synchronization Channel 3
	B6SC4: Block 6 - Synchronization Channel 4
	B6SC5: Block 6 - Synchronization Channel 5
	B6SC6: Block 6 - Synchronization Channel 6
	B6SC7: Block 6 - Synchronization Channel 7
	B6SC8: Block 6 - Synchronization Channel 8
	B7SH: Block 7 - SH byte
	B7MCSTS1: Block 7 - Management Channel - Shim to Shim byte 1
	B7MCSTS2: Block 7 - Management Channel - Shim to Shim byte 2
	B7MCSTS3: Block 7 - Management Channel - Shim to Shim byte 3

:SOURce:DATA:TELEcom:FETHerNet:OH:BYTE

Parameter(s)	B7MCSTS4: Block 7 - Management Channel - Shim to Shim byte 4
	B7MCSTS5: Block 7 - Management Channel - Shim to Shim byte 5
	B7MCSTS6: Block 7 - Management Channel - Shim to Shim byte 6
	B7MCSTS7: Block 7 - Management Channel - Shim to Shim byte 7
	B7MCSTS8: Block 7 - Management Channel - Shim to Shim byte 8
	B7RES1: Block 7 - Reserved byte 1
	B7RES2: Block 7 - Reserved byte 2
	B7RES3: Block 7 - Reserved byte 3
	B7RES4: Block 7 - Reserved byte 4
	B7RES5: Block 7 - Reserved byte 5
	B7RES6: Block 7 - Reserved byte 6
	B7RES7: Block 7 - Reserved byte 7
	B7RES8: Block 7 - Reserved byte 8
	B8SH: Block 8 - SH byte
	B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1
	B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2
	B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3
	B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4
	B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5
	B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6
	B8MCSTS7: Block 8 - Management Channel - Shim to Shim byte 7
	B8MCSTS8: Block 8 - Management Channel - Shim to Shim byte 8
	B8RES1: Block 8 - Reserved byte 1
	B8RES2: Block 8 - Reserved byte 2
	B8RES3: Block 8 - Reserved byte 3
	B8RES4: Block 8 - Reserved byte 4
	B8RES5: Block 8 - Reserved byte 5

:SOURce:DATA:TELecom:FETHerNet:OH:BYTE	
Parameter(s)	B8RES6: Block 8 - Reserved byte 6 B8RES7: Block 8 - Reserved byte 7 B8RES8: Block 8 - Reserved byte 8 Value: The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Value to be return
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:OH:BYTE 5,10,B2RES3,#HF6
See Also	SOURce:DATA:TELecom:FETHerNet:OH SOURce:DATA:TELecom:FETHerNet:OH:REServed

:SOURce:DATA:TELecom:FETHerNet:OH:BYTE?

Description	This command gets the OH bytes for selected PHY and Frame. At *RST condition, this value is set to #H00 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SOURce:DATA:TELecom:FETHerNet:OH:BYTE? <wsp><PHY/Instance>, <Frame>, <OH Byte>
Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate Frame: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame Number OH Byte: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. OH Byte name for which value needs to be return. Selects the OH byte value B2RES1: Block 2 - Reserved byte 1 B2RES2: Block 2 - Reserved byte 2 B2RES3: Block 2 - Reserved byte 3 B2RES4: Block 2 - Reserved byte 4 B2RES5: Block 2 - Reserved byte 5 B2RES6: Block 2 - Reserved byte 6 B3CLRES1: Block 3 - Client Reserved byte 1 B3CLRES2: Block 3 - Client Reserved byte 2 B3CLRES3: Block 3 - Client Reserved byte 3 B3CLRES4: Block 3 - Client Reserved byte 4 B3RES1: Block 3 - Reserved byte 1 B3RES2: Block 3 - Reserved byte 2

:SOURce:DATA:TELEcom:FETHerNet:OH:BYTE?

Parameter(s)	B4SH: Block 4 - SH byte
	B4MCS1: Block 4 - Management Channel - Section byte 1
	B4MCS2: Block 4 - Management Channel - Section byte 2
	B4MCS3: Block 4 - Management Channel - Section byte 3
	B4MCS4: Block 4 - Management Channel - Section byte 4
	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8
	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3
	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8

:SOURce:DATA:TELecom:FETHerNet:OH:BYTE?

Parameter(s)	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7
	B5RES8: Block 5 - Reserved byte 8
	B6SH: Block 6 - SH byte
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3
	B6RES4: Block 6 - Reserved byte 4
	B6RES5: Block 6 - Reserved byte 5
	B6RES6: Block 6 - Reserved byte 6
	B6RES7: Block 6 - Reserved byte 7
	B6RES8: Block 6 - Reserved byte 8
	B6SC1: Block 6 - Synchronization Channel 1
	B6SC2: Block 6 - Synchronization Channel 2
	B6SC3: Block 6 - Synchronization Channel 3
	B6SC4: Block 6 - Synchronization Channel 4

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B6SC5: Block 6 - Synchronization Channel 5
	B6SC6: Block 6 - Synchronization Channel 6
	B6SC7: Block 6 - Synchronization Channel 7
	B6SC8: Block 6 - Synchronization Channel 8
	B7SH: Block 7 - SH byte
	B7MCSTS1: Block 7 - Management Channel - Shim to Shim byte 1
	B7MCSTS2: Block 7 - Management Channel - Shim to Shim byte 2
	B7MCSTS3: Block 7 - Management Channel - Shim to Shim byte 3
	B7MCSTS4: Block 7 - Management Channel - Shim to Shim byte 4
	B7MCSTS5: Block 7 - Management Channel - Shim to Shim byte 5
	B7MCSTS6: Block 7 - Management Channel - Shim to Shim byte 6
	B7MCSTS7: Block 7 - Management Channel - Shim to Shim byte 7
	B7MCSTS8: Block 7 - Management Channel - Shim to Shim byte 8
	B7RES1: Block 7 - Reserved byte 1
	B7RES2: Block 7 - Reserved byte 2
	B7RES3: Block 7 - Reserved byte 3
	B7RES4: Block 7 - Reserved byte 4
	B7RES5: Block 7 - Reserved byte 5
	B7RES6: Block 7 - Reserved byte 6
	B7RES7: Block 7 - Reserved byte 7
	B7RES8: Block 7 - Reserved byte 8
	B8SH: Block 8 - SH byte
	B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1
	B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2
	B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3
	B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4
	B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5
	B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B8MCST57: Block 8 - Management Channel - Shim to Shim byte 7 B8MCST58: Block 8 - Management Channel - Shim to Shim byte 8 B8RES1: Block 8 - Reserved byte 1 B8RES2: Block 8 - Reserved byte 2 B8RES3: Block 8 - Reserved byte 3 B8RES4: Block 8 - Reserved byte 4 B8RES5: Block 8 - Reserved byte 5 B8RES6: Block 8 - Reserved byte 6 B8RES7: Block 8 - Reserved byte 7 B8RES8: Block 8 - Reserved byte 8
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:BYTE 5,10,B2RES3,#HF6 SOUR:DATA:TEL:FETH:OH:BYTE? 5,10,B2RES3 Returns: 246
See Also	SOURce:DATA:TELecom:FETHernet:OH? SOURce:DATA:TELecom:FETHernet:OH:REServed?

SCPI Command Reference

OH - FlexE (TX/RX)

:SOURce:DATA:TELecom:FETHernet:OH:DEFault	
Description	This command resets or overwrites the FlexE overhead byte values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > OH > Default FlexeE OH
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:DEFault
Response Syntax	<Return Value>
Example(s)	SOUR:DATA:TEL:FETH:OH:DEF

:SOURce:DATA:TELeom:FETHernet:OH:DEFault:BYTE?

Description	This query gets the OH bytes for SH, Type, O Code. At *RST condition, this value is set to device dependent. Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3 - SH, Type, O Code
Syntax	:SOURce:DATA:TELeom:FETHernet:OH:DEFault:BYTE? <wsp><Token>
Parameter(s)	Token: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. OH Byte name for which value needs to be returned. Selects the OH byte value B1SH: Block 1 - SH byte B1TYPE: Block 1 - Type byte B1OCODE: Block 1 - O Code byte B2SH: Block 2 - SH byte B3SH: Block 3 - SH byte
Response Syntax	<Return Value>
Response(s)	Return Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:DEF:BYTE? SH Returns: 10
See Also	SOURce:DATA:TELeom:FETHernet:OH?

:SOURce:DATA:TELecom:FETHernet:OH:FMAP?	
Description	This query returns the byte value for particular frame in FlexE Map. At *RST condition, this value is device dependent. Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - FlexE Map
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:FMAP? <wsp><Frame>
Parameter(s)	Frame: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame Number
Response Syntax	<Return value>
Response(s)	Return value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:FMAP? 1 Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH?

:SOURce:DATA:TELEcom:FETHernet:OH:GROup?

Description	This query returns the group number associated with a FlexE group. At *RST condition, this value is device dependant. Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 Group
Syntax	:SOURce:DATA:TELEcom:FETHernet:OH:GROup?[<wsp><Instance>]
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Instance number for 200GE/400GE Interface/Rate Parameter is not required for 100GE Interface/Rate
Response Syntax	<value>
Response(s)	value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Value to be return
Example(s)	SOURce:DATA:TELEcom:FETHernet:OH:GROup? 1
See Also	SOURce:DATA:TELEcom:FETHernet:OH:SC? 1

:SOURce:DATA:TELecom:FETHernet:OH:OXO?	
Description	This query gets the Oxo bytes for Block 1. At *RST condition, this value is set to 0 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 OXO code
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:OXO?
Response Syntax	<Return value>
Response(s)	Return value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the Oxo Code bytes value.
Example(s)	SOUR:DATA:TEL:FETH:OH:OXO? Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SOURce:DATA:TELeom:FETHernet:OH:PHY:MAP?

Description	This query returns the byte value for particular frame in PHY Map. At *RST condition, this value is device dependent. Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - PHY Map
Syntax	:SOURce:DATA:TELeom:FETHernet:OH:PHY:MAP? <wsp><Frame>
Parameter(s)	Frame: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Frame Number
Response Syntax	<Return value>
Response(s)	Return value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:PHY:MAP? 1 Returns: 0
See Also	SENSe:DATA:TELeom:FETHernet:OH?

:SOURce:DATA:TELEcom:FETHernet:OH:REServed	
Description	This command sets the Reserved bytes for Block 1. At *RST condition, this value is set to #H1 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SOURce:DATA:TELEcom:FETHernet:OH:REServed <wsp><Instance>, <Reserved bit>, <Value>
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the instance number Reserved bit: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the reserved bit B1RES1 block 1 (bit 8) Reserved B1RES2 block 1 (bit 9) Reserved B1RES3 block 1 (bit 10) Reserved B1RES4 block 1 (bit 11) Reserved Value: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the value for reserved bit
Response Syntax	<Return value>
Example(s)	SOUR:DATA:TEL:FETH:OH:RES 1,B1RES1,#B1
See Also	SOURce:DATA:TELEcom:FETHernet:OH SOURce:DATA:TELEcom:FETHernet:OH:BYTE

:SOURce:DATA:TELeom:FETHernet:OH:REServed?

Description	This command sets the Reserved bytes for Block 1. At *RST condition, this value is set to #H1 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SOURce:DATA:TELeom:FETHernet:OH:REServed? <wsp><Instance>, <Reserved bit>
Parameter(s)	Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the instance number Reserved bit: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the reserved bit B1RES1 block 1 (bit 8) Reserved B1RES2 block 1 (bit 9) Reserved B1RES3 block 1 (bit 10) Reserved B1RES4 block 1 (bit 11) Reserved
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the Reserved byte value.
Example(s)	SOUR:DATA:TEL:FETH:OH:RES? 1,B1RES1
See Also	SOURce:DATA:TELeom:FETHernet:OH SOURce:DATA:TELeom:FETHernet:OH:BYTE

:SOURce:DATA:TELecom:FETHernet:OH:RPF?	
Description	This query gets the RPF bit for Block 1. At *RST condition, this value is set to 0 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - RPF
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:RPF? <wsp><PHY/Instance>
Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return the RPF bit value.
Example(s)	SOUR:DATA:TEL:FETH:OH:RPF? 1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RES?

:SOURce:DATA:TELecom:FETHernet:OH:SC

Description	This command sets the SC bit for Block 1. At *RST condition, this value is set to 0 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - SC
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:SC <wsp><PHY/Instance>, <Value>
Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Value to be set
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:FETHernet:OH:SC 1,1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RES

:SOURce:DATA:TELecom:FETHernet:OH:SC?	
Description	This query returns the SC bit for Block 1. At *RST condition, this value is set to 0 Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - SC
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:SC? <wsp><PHY/Instance>
Parameter(s)	PHY/Instance: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. PHY Number or Instance Number: PHY number for 100GE Interface/Rate Instance number for 200GE/400GE Interface/Rate
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Return value
Example(s)	SOURce:DATA:TELecom:FETHernet:OH:SC 1,1 SOURce:DATA:TELecom:FETHernet:OH:SC? 1 Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RPF?

:SOURce:DATA:TELecom:FETHernet:OH?

Description	This query gets the CR and CA OH bytes for Block 3. At *RST condition, this value is set to A Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - CR/CA
Syntax	:SOURce:DATA:TELecom:FETHernet:OH? <wsp> <Calendar>
Parameter(s)	Calendar: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OH byte value CR: Block 3 CR byte CA: Block 3 CA byte
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the CR or CA Calendar value. A, Calender is A B, Calender is B
Example(s)	SOUR:DATA:TEL:FETH:OH CA,A SOUR:DATA:TEL:FETH:OH? CA Returns: A
See Also	SOURce:DATA:TELecom:FETHernet:OH:BYTE? SOURce:DATA:TELecom:FETHernet:OH:REServed?

RTD

:FETCh:DATA:TELecom:RTD:COUNT:FAILED?	
Description	This query returns the total number of failed measurements. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:COUNT:FAILED?
Response Syntax	<Failed>
Response(s)	Failed: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of failed measurements.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:COUN:FAIL?
See Also	FETCh:DATA:TELecom:RTD:COUNT:SUCCEssful?

:FETCh:DATA:TELecom:RTD:COUNt:SUCCEssful?

Description	This query returns the total number of successful measurements. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:COUNt:SUCCEssful?
Response Syntax	<Successful>
Response(s)	Successful: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total number of successful measurements.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:COUN:SUC?
See Also	FETCh:DATA:TELecom:RTD:COUNt:FAILed?

:FETCh:DATA:TELecom:RTD:DELaY:AVERAge?	
Description	This query returns the average Round Trip Delay value. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELaY:AVERAge?
Response Syntax	<Average>
Response(s)	Average: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average Round Trip Delay value.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:DEL:AVER?
See Also	FETCh:DATA:TELecom:RTD:DELaY:MINimum?

:FETCh:DATA:TELecom:RTD:DELaY:LAST?

Description	This query returns the result of the last Round Trip Delay. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELaY:LAST?
Response Syntax	<Last>
Response(s)	Last: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the result of the last Round Trip Delay.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:DEL:LAST?
See Also	FETCh:DATA:TELecom:RTD:DELaY:MAXimum?

:FETCh:DATA:TELecom:RTD:DELaY:MAXimum?	
Description	This query returns the maximum Round Trip Delay recorded. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELaY:MAXimum?
Response Syntax	<Maximum>
Response(s)	Maximum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum Round Trip Delay recorded.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:DEL:MAX?
See Also	FETCh:DATA:TELecom:RTD:DELaY:LAST?

:FETCh:DATA:TELecom:RTD:DELaY:MINimum?

Description	This query returns the minimum Round Trip Delay recorded. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELaY:MINimum?
Response Syntax	<Minimum>
Response(s)	Minimum: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum Round Trip Delay recorded.
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:DEL:MIN?
See Also	FETCh:DATA:TELecom:RTD:DELaY:MAXimum?

:FETCh:DATA:TELecom:RTD:DELaY:STATus?	
Description	This query returns the test status of the Round Trip Delay measurements. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELaY:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the test status of the Round Trip Delay measurements. READY, Ready indicates that the test is ready to perform RTD measurement. RUNNING, Running indicates that the RTD test is running. CANCELLED, Cancelled indicates that the RTD test has been stopped before its completion. CFAILED, Calibration Failed indicates that the test calibration failed.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT SENS:DATA:TEL:RTD ON FETC:DATA:TEL:RTD:DEL:STAT?
See Also	FETCh:DATA:TELecom:RTD:DELaY:LAST?

:SENSe:DATA:TELecom:RTD

Description	This command enables/disables the round trip delay measurements. At *RST condition, this value is set to OFF. Navigation Path: OTN BERT > Functions > RTD > Measure Delay
Syntax	:SENSe:DATA:TELecom:RTD <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the round trip delay measurement. ON, enables the round trip delay measurement. OFF, disables the round trip delay measurement.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:RTD:MODE CONT SENS:DATA:TEL:RTD ON SENS:DATA:TEL:RTD? Returns: 1
See Also	SENSe:DATA:TELecom:RTD:MODE SENSe:DATA:TELecom:RTD:MODE?

:SENSe:DATA:TELecom:RTD:MODE	
Description	This command selects the round trip delay test mode. At *RST condition, this value is set to SINGLE. Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the round trip delay test mode. SINGle: Single. CONTInuous: Continuous
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD:MODE? Returns: SINGLE
See Also	SENSe:DATA:TELecom:RTD SENSe:DATA:TELecom:RTD?

:SENSe:DATA:TELecom:RTD:MODE?

Description	This query returns the round trip delay test mode. At *RST condition, this value is set to SINGLE. Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the round trip delay test mode. SINGLE, single mode is selected as the round trip delay. CONTINUOUS, continuous mode is selected as the round trip delay.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT SENS:DATA:TEL:RTD:MODE? Returns: SINGLE
See Also	SENSe:DATA:TELecom:RTD SENSe:DATA:TELecom:RTD?

:SENSe:DATA:TELecom:RTD:RESet	
Description	This command resets the results and measurement count. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:RESet
Response Syntax	<Mode>
Example(s)	SENS:DATA:TEL:RTD:MODE SING SENS:DATA:TEL:RTD ON SENS:DATA:TEL:RTD:RES
See Also	FETCh:DATA:TELecom:RTD:COUnT:SUCCEssful?

:SENSe:DATA:TELeom:RTD?

Description	This query returns the status of round trip delay measurements. At *RST condition, this value is set to OFF. Navigation Path: OTN BERT > Functions > RTD > Measure Delay
Syntax	:SENSe:DATA:TELeom:RTD?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the round trip delay measurement. 1, enables measurement of the round trip delay. 0, disables measurement of the round trip delay.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT SENS:DATA:TEL:RTD ON SENS:DATA:TEL:RTD? Returns: 1
See Also	SENSe:DATA:TELeom:RTD:MODE SENSe:DATA:TELeom:RTD:MODE?

RTD (CPRI Framed L2)

:FETCh:DATA:TELecom:CPRI:OBSai:IDELay?	
Description	This Query returns the OBSAI RTT value. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > RTT > RRRH - Delay
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:IDELay?
Response Syntax	<Internal Delay>
Response(s)	Internal Delay: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return Internal Delay Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:IDEL?
See Also	FETCh:DATA:TEL:CPRI:OBS:MESS:C1?

:FETCh:DATA:TELEcom:CPRI:OBSai:PROPdelay?

Description	This Query returns the OBSAI RTT Propagation delay value. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > RTT > Propagation Delay.
Syntax	:FETCh:DATA:TELEcom:CPRI:OBSai:PROPdelay? <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Propagation Delay Type LAST: Propagation Delay Last RMINimum: Propagation Delay Minimum RMAXimum:Propagation Delay Maximum AVERAGE: Propagation Delay Average
Response Syntax	<Propagation Delay>
Response(s)	Propagation Delay: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return Propagation Delay Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:PROP?
See Also	FETCh:DATA:TEL:CPRI:OBS:RXS?

:FETCh:DATA:TELecom:CPRI:OBSai:RTT?	
Description	This Query returns the OBSAI RTT value. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > RTT > RTT.
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RTT? <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. RTT Type LAST: RTT Last RMINimum: RTT Minimum RMAXimum:RTT Maximum AVERAGE: RTT Average
Response Syntax	<RTT>
Response(s)	RTT: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Return RTT Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RTT?
See Also	FETCh:DATA:TEL:CPRI:OBS:MESS:C1?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?

Description	This query returns the Maximum count for Cable Delay. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Cable Delay > Average
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum count for Cable Delay.
Example(s)	SENS:DATA:TEL:CPRI:RTD:CABL:AVER?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:MAXimum?

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:LAST?	
Description	This query returns the Last count for Cable Delay. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Cable Delay > Last
Syntax	:SENSe:DATA:TELeom:CPRI:RTD:CABLe:LAST?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Last count for Cable Delay.
Example(s)	SENS:DATA:TEL:CPRI:RTD:CABL:LAST?
See Also	SENSe:DATA:TELeom:CPRI:RTD:CABLe:MINimum?

:SENSe:DATA:TELeom:CPRI:RTD:CABLe:MAXimum?

Description	This query returns the Maximum count for Cable Delay. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Cable Delay > Maximum
Syntax	:SENSe:DATA:TELeom:CPRI:RTD:CABLe:MAXimum?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Maximum count for Cable Delay.
Example(s)	SENS:DATA:TEL:CPRI:RTD:CABL:MAX?
See Also	SENSe:DATA:TELeom:CPRI:RTD:CABLe:AVEAge?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?

Description	This query returns the Minimum count for Cable Delay. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Cable Delay > Mimimum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum count for Cable Delay.
Example(s)	SENSe:DATA:TEL:CPRI:RTD:CABL:MIN?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:LAST?

:SENSe:DATA:TELecom:CPRI:RTD:DELaY:AVErAge?

Description	This query returns the Average count for Delay T14. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Delay T14 > Average
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELaY:AVErAge?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Average count for Delay T14.
Example(s)	SENS:DATA:TEL:CPRI:RTD:DEL:AVER?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELaY:MAXimum?

SCPI Command Reference

RTD (CPRI Framed L2)

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:LAST?	
Description	This query returns the Last count for Delay T14. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Delay T14 > Last
Syntax	:SENSe:DATA:TELeom:CPRI:RTD:DELaY:LAST?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Last count for Delay T14.
Example(s)	SENS:DATA:TEL:CPRI:RTD:DEL:LAST?
See Also	SENSe:DATA:TELeom:CPRI:RTD:DELaY:MINimum?

:SENSe:DATA:TELeom:CPRI:RTD:DELaY:MAXimum?

Description	This query returns the Maximum count for Delay T14. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Delay T14 > Maximum
Syntax	:SENSe:DATA:TELeom:CPRI:RTD:DELaY:MAXimum?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum count for Delay T14.
Example(s)	SENS:DATA:TEL:CPRI:RTD:DEL:MAX?
See Also	SENSe:DATA:TELeom:CPRI:RTD:DELaY:AVERage?

:SENSe:DATA:TELecom:CPRI:RTD:DELaY:MINimum?

Description	This query returns the Minimum count for Delay T14. At *RST condition, this value is device dependent. Navigation Path: Functions > RTD (CPRI) > Delay T14 > Mimimum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELaY:MINimum?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Minimum count for Delay T14.
Example(s)	SENS:DATA:TEL:CPRI:RTD:DEL:MIN?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELaY:LAST?

:SOURce:DATA:TELEcom:CPRI:RTD:TOFFset

Description	This Command set toffset Value. At *RST condition, this value is 0.00. Navigation Path: Functions > RTD (CPRI) > Toffset
Syntax	:SOURce:DATA:TELEcom:CPRI:RTD:TOFFset <wsp><Toffset>
Parameter(s)	Toffset: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Toffset value. Choices are 0 to 66670. MAXimum, sets the instrument's greatest supported Toffset value. MINimum, sets the instrument's smallest supported Toffset value. DEFault, sets the Toffset as default value.
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:CPRI:RTD:TOFF
See Also	SOURce:DATA:TELEcom:CPRI:INTERface:ERRor:MANual:AMOUNT

:SOURce:DATA:TELecom:CPRI:RTD:TOFFset?	
Description	This Query returns toffset Value. At *RST condition, this value is 0.00. Navigation Path: Functions > RTD (CPRI) > Toffset
Syntax	:SOURce:DATA:TELecom:CPRI:RTD:TOFFset?[<wsp> <Toffset>]
Parameter(s)	Toffset: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Toffset value is returned. MAXimum is used to retrieve the instrument's greatest supported Toffset value. MINimum is used to retrieve the instrument's smallest supported Toffset value. DEFault is used to retrieve the default Toffset value.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns toffset Value.
Example(s)	SOUR:DATA:TEL:CPRI:RTD:TOFF?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOUnt?

FEAC

:FETCh:DATA:TELecom:DSN:FEAC:LINK?

Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement. At *RST condition, this value is device dependent. Navigation Path: Functions > FEAC > Received Messages > Link Activity
Syntax	:FETCh:DATA:TELecom:DSN:FEAC:LINK? <wsp><Activity>
Parameter(s)	Activity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the activity for the following parameters during the last second of measurement. NOActivity: No Activity (All 1's). AStatus: Alarm/Status. LOOPback: Loopback. UNASsigned: Unassigned.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the activity for the selected parameters during the last second of measurement. 1, selected parameter is present 0, selected parameter is absent
Example(s)	FETC:DATA:TEL:DSN:FEAC:LINK? LOOP
See Also	FETCh:DATA:TEL:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel?	
Description	This query returns the channel Loopback commands for Current or Previous state. At *RST condition, this value is device dependent. Navigation Path: Functions > FEAC > Received Messages > Loopback Commands > Current/Previous > Channel
Syntax	:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CHANnel? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Alarm/Status Unassigned Messages. CURRent: Alarm/Status Unassigned Messages for Current state. PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	Command: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the channel loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FEAC:LOOP:CHAN? CURR
See Also	FETCh:DATA:TELEcom:DSN:FEAC:CONTrol?

:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CONTRol?

Description	This query returns the control Loopback commands for Current or Previous state. At *RST condition, this value is device dependent. Navigation Path: Functions > FEAC > Received Messages > Loopback Commands > Current/Previous > Control
Syntax	:FETCh:DATA:TELEcom:DSN:FEAC:LOOPback:CONTRol? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Alarm/Status Unassigned Messages. CURRent: Alarm/Status Unassigned Messages for Current state. PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	Command: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the control loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FEAC:LOOP:CONT? CURR
See Also	FETCh:DATA:TELEcom:DSN:FEAC:CHANnel?

:FETCh:DATA:TELEcom:DSN:FEAC:MESSage?	
Description	This query returns the Alarm/Status Unassigned Messages. At *RST condition, this value is device dependent. Navigation Path: Functions > FEAC > Received Messages > Alarm/Status and Unassigned > Mode(Manual) > Inject
Syntax	:FETCh:DATA:TELEcom:DSN:FEAC:MESSage? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Alarm/Status Unassigned Messages. CURRent: Alarm/Status Unassigned Messages for Current state. PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Alarm/Status Unassigned Messages.
Example(s)	FETC:DATA:TEL:DSN:FEAC:MESS? CURR
See Also	FETCh:DATA:TEL:SONet:SECTion:PM:STATistics?

:SOURce:DATA:TELeom:DSN:FEAC:CODeword

Description	This command selects the continuous codeword for Alarm/Status Unassigned Messages. At *RST condition, this value is set to DS3IR. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Codeword
Syntax	:SOURce:DATA:TELeom:DSN:FEAC:CODeword <wsp><Codeword>
Parameter(s)	Codeword: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the codeword. DS3EFSA: DS3 Eqpt. Failure (SA) (00110010) DS3LOS: DS3 LOS (00011100) DS3OOF: DS3 Out of Frame (00000000) DS3AR: DS3 AIS Received (00101100) DS3IR: DS3 IDLE Received (00110100) DS3EFNSA: DS3 Eqpt. Failure (NSA) (00011110) CEFailure: Common Eqpt. Failure (NSA) (00111010) MDS1LOS: Multiple DS1 LOS (00101010) DS1EFSA: DS1 Eqpt. Failure (SA) (00001010) SDS1LOS: Single DS1 LOS (00111100) DS1EFNSA: DS1 Eqpt. Failure (NSA) (00000110) U00000010: Unassigned (00000010); U00000100: Unassigned (00000100); U00001000: Unassigned (00001000); U00001100: Unassigned (00001100); U00010000: Unassigned (00010000); U00010010: Unassigned (00010010); U00010100: Unassigned (00010100); U00010110: Unassigned (00010110); U00011000: Unassigned (00011000); U00011010: Unassigned (00011010); U00100000: Unassigned (00100000); U00100010: Unassigned (00100010); U00100100: Unassigned (00100100); U00101000: Unassigned (00101000); U00101100: Unassigned (00101100); U00110000: Unassigned (00110000); U00111010: Unassigned (00111010); U01000000: Unassigned (01000000); U01111010: Unassigned (01111010); U01111100: Unassigned (U01111100); U01111110: Unassigned (01111110); IVALue: Invalid Value

:SOURce:DATA:TELecom:DSN:FEAC:CODeword	
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:COD DS3LOS
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:CONTInous:CODEword?

:SOURce:DATA:TELecom:DSN:FEAC:CODeword?

Description	This query returns the continuous codeword for Alarm/Status Unassigned Messages. At *RST condition, this value is set to DS3IR. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CODeword?
Response Syntax	<Codeword>

:SOURce:DATA:TELecom:DSN:FEAC:CODeword?	
Response(s)	Codeword: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the codeword. DS3EFSa: DS3 Eqpt. Failure (SA) (00110010) DS3LOS: DS3 LOS (00011100) DS3OOF: DS3 Out of Frame (00000000) DS3AR: DS3 AIS Received (00101100) DS3IR: DS3 IDLE Received (00110100) DS3EFNSa: DS3 Eqpt. Failure (NSA) (00011110) CEFailure: Common Eqpt. Failure (NSA) (00111010) MDS1LOS: Multiple DS1 LOS (00101010) DS1EFSa: DS1 Eqpt. Failure (SA) (00001010) SDS1LOS: Single DS1 LOS (00111100) DS1EFNSa: DS1 Eqpt. Failure (NSA) (00000110) U00000010: Unassigned (00000010); U00000100: Unassigned (00000100); U00001000: Unassigned (00001000); U00001100: Unassigned (00001100); U00010000: Unassigned (00010000); U00010010: Unassigned (00010010); U00010100: Unassigned (00010100); U00010110: Unassigned (00010110); U00011000: Unassigned (00011000); U00011010: Unassigned (00011010); U00100000: Unassigned (00100000); U00100010: Unassigned (00100010); U00100100: Unassigned (00100100); U00101000: Unassigned (00101000); U00101110: Unassigned (00101110); U00110000: Unassigned (00110000); U00111110: Unassigned (00111110); U01000000: Unassigned (01000000); U01111010: Unassigned (01111010); U01111100: Unassigned (01111100); U01111110: Unassigned (01111110) IVALue: Invalid Value
Example(s)	SOUR:DATA:TEL:DSN:FEAC:COD DS3LOS SOUR:DATA:TEL:DSN:FEAC:COD? Returns: DS3LOS
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:CONTInous:CODEword

:SOURce:DATA:TELecom:DSN:FEAC:CONTInuous

Description	This command enables/disables the Continuous Codeword feature. At *RST condition, this value is set to OFF. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Continous) > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CONTInuous <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Continuous Codeword feature. ON, enables the Continuous Codeword feature. OFF,disables the Continuous Codeword feature.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:CONT ON
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:CONTInous:CODEword SOURce:DATA:TELecom:DSN:FEAC:CONTInous?

:SOURce:DATA:TELEcom:DSN:FEAC:CONTinuous?	
Description	This query returns the status of the Continuous Codeword feature. At *RST condition, this value is set to OFF. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Continuous) > Codeword
Syntax	:SOURce:DATA:TELEcom:DSN:FEAC:CONTinuous?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Continuous Codeword feature.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:CONT:COD DS3LOS SOUR:DATA:TEL:DSN:FEAC:CONT ON SOUR:DATA:TEL:DSN:FEAC:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:DSN:FEAC SOURce:DATA:TELEcom:DSN:FEAC:CONTinous:CODEword SOURce:DATA:TELEcom:DSN:FEAC:CONTinous

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

Description	This command sets the amount of channel codeword for Loopback Commands. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of channel codeword for Loopback Commands. Choices are 1 through 15. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT? SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMOUNT?	
Description	This query returns the amount of channel codeword for Loopback Commands. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Amount
Syntax	:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMOUNT?[<wsp> <Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of channel codeword for Loopback commands.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L2 SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10 SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO? Returns: 10
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMOUNT SOURce:DATA:TELeom:DSN:FEAC:LOOPback:INJECT

**:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:COD
eword**

Description	This command selects the channel codeword for Loopback commands. At *RST condition, this value is set to DS3L. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Codeword
Syntax	:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:CODeword <wsp><Codeword>
Parameter(s)	Codeword: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the channel codeword for Loopback commands. DS3L: DS3 Line (00110110); DS1L1: DS1 Line-No1 (01000010); DS1L2: DS1 Line-No2 (01000100); DS1L3: DS1 Line-No3 (01000110); DS1L4: DS1 Line-No4 (01001000); DS1L5: DS1 Line-No5 (01001010); DS1L6: DS1 Line-No6 (01001100); DS1L7: DS1 Line-No7 (01001110); DS1L8: DS1 Line-No8 (01010000); DS1L9: DS1 Line-No9 (01010010); DS1L10: DS1 Line-No10 (01010100); DS1L11: DS1 Line-No11 (01010110); DS1L12: DS1 Line-No12 (01011000); DS1L13: DS1 Line-No13 (01011010); DS1L14: DS1 Line-No14 (01011100); DS1L15: DS1 Line-No15 (01011110); DS1L16: DS1 Line-No16 (01100000); DS1L17: DS1 Line-No17 (01100010); DS1L18: DS1 Line-No18 (01100100); DS1L19: DS1 Line-No19 (01100110); DS1L20: DS1 Line-No20 (01101000); DS1L21: DS1 Line-No21 (01101010); DS1L22: DS1 Line-No22 (01101100); DS1L23: DS1 Line-No23 (01101110); DS1L24: DS1 Line-No24 (01110000); DS1L25: DS1 Line-No25 (01110010); DS1L26: DS1 Line-No26 (01110100); DS1L27: DS1 Line-No27 (01110110); DS1L28: DS1 Line-No28 (01111000); DS1LALL: DS1 Line-All (00100110)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:CODEword? SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMount SOURce:DATA:TELeom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword?	
Description	This query returns the channel codeword for Loopback commands. At *RST condition, this value is set to DS3L. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword?
Response Syntax	<Codeword>
Response(s)	Codeword: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the channel codeword for Loopback commands. DS3L: DS3 Line (00110110); DS1L1: DS1 Line-No1 (01000010); DS1L2: DS1 Line-No2 (01000100); DS1L3: DS1 Line-No3 (01000110); DS1L4: DS1 Line-No4 (01001000); DS1L5: DS1 Line-No5 (01001010); DS1L6: DS1 Line-No6 (01001100); DS1L7: DS1 Line-No7 (01001110); DS1L8: DS1 Line-No8 (01010000); DS1L9: DS1 Line-No9 (01010010); DS1L10: DS1 Line-No10 (01010100); DS1L11: DS1 Line-No11 (01010110); DS1L12: DS1 Line-No12 (01011000); DS1L13: DS1 Line-No13 (01011010); DS1L14: DS1 Line-No14 (01011100); DS1L15: DS1 Line-No15 (01011110); DS1L16: DS1 Line-No16 (01100000); DS1L17: DS1 Line-No17 (01100010); DS1L18: DS1 Line-No18 (01100100); DS1L19: DS1 Line-No19 (01100110); DS1L20: DS1 Line-No20 (01101000); DS1L21: DS1 Line-No21 (01101010); DS1L22: DS1 Line-No22 (01101100); DS1L23: DS1 Line-No23 (01101110); DS1L24: DS1 Line-No24 (01110000); DS1L25: DS1 Line-No25 (01110010); DS1L26: DS1 Line-No26 (01110100); DS1L27: DS1 Line-No27 (01110110); DS1L28: DS1 Line-No28 (01111000); DS1LALL: DS1 Line-All (00100110)
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD? Returns: DS3L
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMount SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOUNT	
Description	This command sets the amount of control codeword for Loopback commands. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOUNT <wsp> <Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of control codeword for Loopback commands. Choices are 1 through 15. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOUNT? SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTRol:AMOUnt?	
Description	This query returns the amount of control codeword for Loopback commands. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTRol:AMOUnt?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount of control codeword for Loopback commands.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLAC SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO 10 SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO? Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTRol:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTRol:AMOUnt SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

**:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODe
word**

Description	This command selects the control codeword for Loopback commands. At *RST condition, this value is set to LLACTivate. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword <wsp><Codeword>
Parameter(s)	Codeword: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the control codeword for loopback commands. LLACTivate: Line Loopback Activate (00001110) LLDeactivate: Line Loopback Deactivate (00111000)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLACTIVATE
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword? SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOUnt SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword?	
Description	This query returns the control codeword for Loopback commands. At *RST condition, this value is set to LLACTivate. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword?
Response Syntax	<Codeword>
Response(s)	Codeword: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the control codeword for loopback commands. LLACTIVATE, Line Loopback Activate (00001110) is selected as control codeword. LLDEACTIVATE, Line Loopback Deactivate (00111000) is selected as control codeword.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLACTIVATE SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD? Returns: LLACTIVATE
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOUNT SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJECT

:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:INJect

Description	This command injects the Loopback commands. This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Inject
Syntax	:SOURce:DATA:TELeom:DSN:FEAC:LOOPback:INJect
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L2 SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10 SOUR:DATA:TEL:DSN:FEAC:LOOP:INJ
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

:SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOut	
Description	This command sets the amount for Alarm/Status Unassigned Messages. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Amount
Syntax	:SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOut <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount for Alarm/Status Unassigned Messages. Choices are 1 through 15. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value Choices are 1 through 15.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:AMO 10
See Also	SOURce:DATA:TELEcom:DSN:FEAC SOURce:DATA:TELEcom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOut? SOURce:DATA:TELEcom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUNT?

Description	This query returns the amount for Alarm/Status Unassigned Messages. At *RST condition, this value is set to 10. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUNT?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount for Alarm/Status Unassigned Messages.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:AMO 10 SOUR:DATA:TEL:DSN:FEAC:MAN:AMO? Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUNT SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect	
Description	This command injects the Alarm/Status Unassigned Messages. This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUNT

FDL - Bit-Oriented Message

:FETCh:DATA:TELEcom:DSN:FDL:PRiority:MESSage?

Description	This query returns the Alarm/Status Unassigned Messages. At *RST condition, this value is device dependent. Navigation Path: Functions > FDL > Bit-Oriented Message > Received Messages > Priority > Current/Previous
Syntax	:FETCh:DATA:TELEcom:DSN:FDL:PRiority:MESSage? <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Alarm/Status Unassigned Messages. CURRent: Alarm/Status Unassigned Messages for Current state. PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Message>
Response(s)	Message: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Alarm/Status Unassigned Messages.
Example(s)	FETC:DATA:TEL:DSN:FDL:PRI:MESS? CURRENT
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELEcom:DSN:FDL:RESPonse:CONTRol?	
Description	This query returns the control Loopback commands for Current or Previous state. At *RST condition, this value is device dependent. Navigation Path: Functions > FDL > Bit-Oriented Message > Received Messages > Response > Current/Previous
Syntax	:FETCh:DATA:TELEcom:DSN:FDL:RESPonse:CONTRol? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Alarm/Status Unassigned Messages. CURRent: Alarm/Status Unassigned Messages for Current state. PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	Command: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the control loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FDL:RESP:CONT? CURRENT
See Also	FETCh:DATA:TELEcom:DSN:FEAC:CHANnel?

:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect

Description	This command sets the manual codeword This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the manual codeword Injection ON, enables the manual codeword Injection OFF,disables the manual codeword Injection
Response Syntax	<Command>
Example(s)	SOUR:DATA:TEL:DSN:FDL:MAN:INJ ON
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOut

:SOURce:DATA:TELeom:DSN:FDL:MANual:INJect?	
Description	This query returns the status of manual codeword Injection This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Inject
Syntax	:SOURce:DATA:TELeom:DSN:FDL:MANual:INJect?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Manual codeword Injection 1, status of the Manual codeword Injection is enabled. 0, status of the Manual codeword Injection is disabled.
Example(s)	SOUR:DATA:TEL:DSN:FDL:MAN:INJ ON SOUR:DATA:TEL:DSN:FDL:MAN:INJ? Returns: 1
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELeom:DSN:FEAC:MANual:AMOUNT

:SOURce:DATA:TELecom:DSN:FDL:PRiority:CODeword

Description	This command selects the manual codeword for Alarm/Status Unassigned Messages. At *RST condition, this value is set to DS3IR. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FDL:PRiority:CODeword <wsp><Codeword>
Parameter(s)	Codeword: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the manual codeword. RAI RACI LOOPACK
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:PRI:COD RAI
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword? SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUnt SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELeom:DSN:FDL:PRiority:CODeword?	
Description	This query returns the manual codeword for Alarm/Status Unassigned Messages. At *RST condition, this value is set to DS3IR. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Codeword
Syntax	:SOURce:DATA:TELeom:DSN:FDL:PRiority:CODeword?
Response Syntax	<Codeword>
Response(s)	Codeword: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the manual codeword. RAI, RAI is selected as manual codeword. RACI, RACI is selected as manual codeword. LOOPACK,LOOPACK is selected as manual codeword.
Example(s)	SOUR:DATA:TEL:DSN:FDL:PRI:COD RAI SOUR:DATA:TEL:DSN:FDL:PRI:COD? Returns: RAI
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELeom:DSN:FEAC:MANual:AMOUnt SOURce:DATA:TELeom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:AMOUNT

Description	This command sets the amount for Alarm/Status Unassigned Messages. At *RST condition, this value is set to 10. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Command/Response > Amount
Syntax	:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:AMOUNT <wsp><Amount>
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount for Alarm/Status Unassigned Messages. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value Choices are 1 through 15.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:AMO 10
See Also	SOURce:DATA:TELEcom:DSN:FEAC SOURce:DATA:TELEcom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOUNT? SOURce:DATA:TELEcom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOut?	
Description	This query returns the amount for Alarm/Status Unassigned Messages. At *RST condition, this value is set to 10. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Command/Response > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOut?[<wsp><Amount>]
Parameter(s)	Amount: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current amount is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Amount>
Response(s)	Amount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the amount for Alarm/Status Unassigned Messages.
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:AMO 10 SOUR:DATA:TEL:DSN:FDL:RESP:AMO? Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOut SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELeom:DSN:FDL:RESPonse:CODeword

Description This command selects the manual codeword Response for Alarm/Status Unassigned Messages.
At *RST condition, this value is set to DS3IR.
Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Codeword

Syntax :SOURce:DATA:TELeom:DSN:FDL:RESPonse:CODeword <wsp> <Codeword>

:SOURce:DATA:TELEcom:DSN:FDL:RESPonse:CODeword

Parameter(s)	Codeword:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Response codeword.
	CICSULILBCK: CiCsuLineLoopback.
	DNTUSESYSC: DS3 Eqpt. Failure (SA) (00110010).
	ISDNLILBCK: IsdnLineLoopback.
	LILPBCKACT: LineLoopbackActivate.
	LILBCKDEACT: LineLoopbackDeactivate.
	NWLPBCKACT: NetworkLoobackActivate.
	NT1PWOFF: Nt1PowerOff.
	PAYLLPBCKACT: PayloadLoobackActivate.
	PLLPBCKDEACT: PayloadLoopbackDeactivate.
	PROTSWTCACK: ProtectionSwitchAcknowledge.
	PROTSWLI1: ProtectionSwitchLine1.
	PROTSWLI2, PROTSWLI3, PROTSWLI4, PROTSWLI5, PROTSWLI6, PROTSWLI7, PROTSWLI8, PROTSWLI9, PROTSWLI10, PROTSWLI11, PROTSWLI12, PROTSWLI13, PROTSWLI14, PROTSWLI15, PROTSWLI16, PROTSWLI17, PROTSWLI18, PROTSWLI19, PROTSWLI20, PROTSWLI21, PROTSWLI22, PROTSWLI23, PROTSWLI24, PROTSWLI25, PROTSWLI26, PROTSWLI27
	PROTSWREL: ProtectionSwitchRelease.
	ALLZ: ALLZeros as response code word.
	RFCUST000001: ReservedForCustomer000001.
	RFCUST000011: ReservedForCustomer000011.
	RFCUST000101: ReservedForCustomer000101.
	RFCUST011011: ReservedForCustomer011011.
	RFNWUS001011: ReservedForNetworkUse001011.
	RFNWUS001101: ReservedForNetworkUse001101.
	RFNWUS001111: ReservedForNetworkUse001111.
	RFNWUE011101: ReservedForNetworkUse011101.

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword

Parameter(s)	RESNWSYNC: ReservedForNetworkSynchronization. SOTMINCLKTRA: SonetMinimumClockTraceabl. STRTRACE: StratumTraceable. STR2TRA: Stratum2Traceable. STR3ETRA: Stratum3ETraceable. STR4TRA: Stratum4Traceable. SYNCTRAUNKWN: SynchronizationTraceabilityUnknown. TMITNODECLK: TransmitNodeClock. UNANM011110: UnassignMessage011110. UNANM111101: UnassignMessage111101. UNANM111111: UnassignMessage111111. UNDRST010110: UnderStudyForMaintenance010110. UNDRST011010: UnderStudyForMaintenance011010. UNIVLBCKDEACT: UniversalLoopbackDeactivate.
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Response Syntax
<Amount>

Example(s)
SOUR:DATA:TEL:DSN:FDL:RESP:COD CICSULILBCK

See Also
SOURce:DATA:TELecom:DSN:FEAC
SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword?
SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUNT
SOURce:DATA:TELecom:DSN:FEAC:MANual:INJECT

:SOURce:DATA:TELeom:DSN:FDL:RESPonse:CODeword?	
Description	This query returns the manual codeword Response for Alarm/Status Unassigned Messages. At *RST condition, this value is set to DS3IR. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Codeword
Syntax	:SOURce:DATA:TELeom:DSN:FDL:RESPonse:CODeword?
Response Syntax	<Codeword>
Response(s)	Codeword: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the response codeword.
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:COD CICSULILBCK SOUR:DATA:TEL:DSN:FDL:RESP:COD? Returns: CICSULILBCK
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELeom:DSN:FEAC:MANual:AMOUNT SOURce:DATA:TELeom:DSN:FEAC:MANual:INJECT

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:INJect

Description	This command sends manual command response of the Alarm/Status Unassigned Messages. This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:INJect
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUnt

FDL - Performance Report Message

:FETCh:DATA:TELecom:DSN:FDL:BITevents?	
Description	This command Returns the value of PRM Bit Events This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Performance Report Message > Received Messages > PRM Bit Events
Syntax	:FETCh:DATA:TELecom:DSN:FDL:BITevents? <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of PRM Bit event. G3: 5 < CRC Error Event <= 10 LV: Line Code Violation Event <= 1 G4: 10 < CRC Error Event <= 100 U1: Under study for synchronization U2: Under study for synchronization G5: 100 < CRC Error Event <= 319 SL: Controlled Slip Event <= 1 G6: CRC Error Event >= 320 FE: Frame Sync. Bit Error Event <= 1 SE: Severely-Errored Framing Event <= 1 LB: Payload Loopback Activated G1: CRC Error Event = 1 R: Reserved G2: 1 < CRC Error Event <= 5 Nm and NI: One-second report modulo 4 counter.
Response Syntax	<Value>

:FETCh:DATA:TELecom:DSN:FDL:BITevents?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of PRM Bit Events
Example(s)	FETC:DATA:TEL:DSN:FDL:BIT? G1
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

:FETCh:DATA:TELecom:DSN:FDL:CIRCUit?	
Description	This query returns the Circuit value This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Circuit
Syntax	:FETCh:DATA:TELecom:DSN:FDL:CIRCUit?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Received messages Circuit
Example(s)	FETC:DATA:TEL:DSN:FDL:CIRCUit?
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

:FETCh:DATA:TELEcom:DSN:FDL:EVENTcount?

Description	This query returns the value of event count At *RST condition, this value is device dependent. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Eventcount
Syntax	:FETCh:DATA:TELEcom:DSN:FDL:EVENTcount?
Response Syntax	<Eventcount>
Response(s)	Eventcount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of event count
Example(s)	FETC:DATA:TEL:DSN:FDL:EVENTcount?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:DSN:FDL:LINK?	
Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement. At *RST condition, this value is device dependent. Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Link Activity
Syntax	:FETCh:DATA:TELecom:DSN:FDL:LINK? <wsp><Activity>
Parameter(s)	Activity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the activity for the following parameters during the last second of measurement. IDLE: IDLE PRIoRity: PRIORITY CR: CR UNASSIGNED: UNASsigned PRM: PRM
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the activity for the selected parameters during the last second of measurement. 1, Selected parameter is present 0, Selected parameter is present
Example(s)	FETC:DATA:TEL:DSN:FDL:LINK? PRM
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:DSN:FDL:REPortcont?

Description	This command injects the Report content This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Report Content > Performance Information
Syntax	:FETCh:DATA:TELecom:DSN:FDL:REPortcont? <wsp><Time Line>, <Type>
Parameter(s)	Time Line: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Time Line for Performance Messages Each PRM is listed into four lines called Time: T0 represents valid PRM message received in the last second of measurement (bytes 5 and 6). T0_1 represents the message one PRM ago (bytes 7 and 8). T0_2 represents the message two PRM ago (bytes 9 and 10). T0_3 represents the message three PRM ago (bytes 11 and 12). Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of PRM Bit event. G1: CRC Error Event = 1 G2: 1 < CRC Error Event <= 5 G3: 5 < CRC Error Event <= 10 G4: 10 < CRC Error Event <= 100 G5: 100 < CRC Error Event <= 319 G6: CRC Error Event >= 320 SE: Severely-Errored Framing Event >= 1 FE: Frame Sync. Bit Error Event >= 1 LV: Line Code Violation Event >= 1 SL: Controlled Slip Event >= 1 LB: Payload Loopback Activated U1BIT: Under study for synchronization U2BIT: Under study for synchronization NM and NL: One-second report modulo 4 counter. R: Reserved

:FETCh:DATA:TELecom:DSN:FDL:REPortcont?	
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Performace Messages
Example(s)	FETC:DATA:TEL:DSN:FDL:REP? T0,G2
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

:FETCh:DATA:TELecom:DSN:FDL:VALid:EVENTcount?

Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement. At *RST condition, this value is device dependent. Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Valid Event Count
Syntax	:FETCh:DATA:TELecom:DSN:FDL:VALid:EVENTcount?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the valid eventcount
Example(s)	FETC:DATA:TEL:DSN:FDL:VALid:EVENTcount?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

SCPI Command Reference

FDL - Performance Report Message

:SOURce:DATA:TELEcom:DSN:FDL:ANSI	
Description	This command enables/disables the activation of ANSI TI.403 At *RST condition, this value is set to OFF. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > ANSI TI.403
Syntax	:SOURce:DATA:TELEcom:DSN:FDL:ANSI <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the activation of ANSI TI.403 OFF, disables the activation of ANSI TI.403
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:ANSI ON
See Also	SOURce:DATA:TELEcom:DS:ENABLEd?

:SOURce:DATA:TELEcom:DSN:FDL:ANSI?

Description	This query returns status of ANSI TI.403 At *RST condition, this value is set to OFF. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > ANSI TI.403
Syntax	:SOURce:DATA:TELEcom:DSN:FDL:ANSI?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the of ANSI mode
Example(s)	SOUR:DATA:TEL:DSN:FDL:ANSI ON SOUR:DATA:TEL:DSN:FDL:ANSI? Returns: 1
See Also	SOURce:DATA:TELEcom:DS:ENABLEd?

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus	
Description	This command sets the Bit event Status At *RST condition, this value is set to off. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > PRM Bit Events
Syntax	:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus <wsp><Type>, <Set>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of PRM Bit event. G3: 5 < CRC Error Event <= 10 LV: Line Code Violation Event <= 1 G4: 10 < CRC Error Event <= 100 U1BIT: Under study for synchronization U2BIT: Under study for synchronization G5: 100 < CRC Error Event <= 319 SL: Controlled Slip Event <= 1 G6: CRC Error Event >= 320 FE: Frame Sync. Bit Error Event <= 1 SE: Severely-Errored Framing Event <= 1 LB: Payload Loopback Activated G1: CRC Error Event = 1 R: Reserved G2: 1 < CRC Error Event <= 5 Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. ON, enables the activation of PRM Bit event. OFF, disables the activation of PRM Bit event.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:BIT:STAT G1,ON
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus?

Description

This query returns the Bit event Status

At *RST condition, this value is set to AIS.

Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > PRM Bit Events

Syntax

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus? <wsp><Type>

Parameter(s)

Type:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the type of PRM Bit event.

G3: 5 < CRC Error Event <= 10

LV: Line Code Violation Event <= 1

G4: 10 < CRC Error Event <= 100

U1BIT: Under study for synchronization

U2BIT: Under study for synchronization

G5: 100 < CRC Error Event <= 319

SL: Controlled Slip Event <= 1

G6: CRC Error Event >= 320

FE: Frame Sync. Bit Error Event <= 1

SE: Severely-Errored Framing Event <= 1

LB: Payload Loopback Activated

G1: CRC Error Event = 1

R: Reserved

G2: 1 < CRC Error Event <= 5

Nm and Nl: One-second report modulo 4 counter.

Response Syntax

<Set>

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus?

Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of PRM Bit Events
Example(s)	SOUR:DATA:TEL:DSN:FDL:BIT:STAT G1,ON SOUR:DATA:TEL:DSN:FDL:BIT:STAT? G1 Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE

:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE

Description	This command selects the type of Circuit. At *RST condition, this value is set to CITONETWORK. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Circuit
Syntax	:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of FDL Channel Type. CITONETWORK: CI To Network NETWORKTOCI: Network To CI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE NETWORKTOCI
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE?	
Description	This query returns the type of Circuit. At *RST condition, this value is set to CITONETWORK. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Circuit
Syntax	:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE?
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm. AIS, Alarm Indication Signal (AIS) is selected as Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm. RAI, Remote Alarm Indicates (RAI) is selected as Digital Signal-level 1(DS1) alarm. OOF, Out of Frame (OOF) is selected as Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm. RDI1, Remote Defect Indicator (RDI) is selected as Digital Signal-level 3 (DS3) alarm. IDLE1, IDLE is selected as Digital Signal-level 3 (DS3) alarm.
Example(s)	SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE NETWORKTOCI SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE? Returns: NETWORKTOCI
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE

:SOURce:DATA:TELeom:DSN:FDL:INJect

Description	This command injects the FDL Circuit This command is an event and has no associated *RST condition or query form. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Single) > Inject
Syntax	:SOURce:DATA:TELeom:DSN:FDL:INJect
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:DSN:FDL:INJ
See Also	SOURce:DATA:TELeom:DSN:FEAC SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELeom:DSN:FEAC:LOOPback:CHANnel:AMOUNT

:SOURce:DATA:TELecom:DSN:FDL:MODE	
Description	This command selects the type of Mode. At *RST condition, this value is set to AIS. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Continous) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MODE <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the activation of ANSI TI.403, ON, Enables the activation of Continous injection OFF, Enables the activation of Continous injection
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:DSN:FDL:MODE ON
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:MODE?

Description	This query returns the type of Mode. At *RST condition, this value is set to AIS. Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Continous) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MODE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Continous mode Injection
Example(s)	SOUR:DATA:TEL:DSN:FDL:MODE ON SOUR:DATA:TEL:DSN:FDL:MODE? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

Pointer Adjustment

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:COUNT?	
Description	This query returns the counts in which negative pointer adjustment is detected for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Decr. Count
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:DECR:COUN?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SEConds?	
Description	This query returns the number of seconds in which negative pointer adjustment is detected for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Decr. Seconds
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:DECR:SEC?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:COUNt?	
Description	This query returns the count in which positive pointer adjustment is detected for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Incr. Count
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:COUNt?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:INCR:COUN?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SEConds?

Description	This query returns the number of seconds in which positive pointer adjustment is detected for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Incr. Seconds
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:INCR:SEC?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement

:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NDF:COUNT?	
Description	This query returns the count of New Data Flag (NDF). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > NDF Count
Syntax	:FETCh:DATA:TELEcom:SDHSonet:HOP:POINter:NDF:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of counts of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NDF:COUN?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:SEConds?

Description	This query returns the number of seconds of New Data Flag (NDF) for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:COUNT?	
Description	This query returns the count of No New Data Flag (NNDF). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > No NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of counts of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NNDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:SEConds?	
Description	This query returns the number of seconds of No New Data Flag (NNDF) for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > No NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NNDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:OFFSet?	
Description	This query returns the difference between the pointer increment and the pointer decrement for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Cumulative Offset
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:OFFSet?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the difference between the pointer increment and the pointer decrement.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:OFFS?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Pointer Value
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
Response Syntax	<Pointer>
Response(s)	Pointer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the actual pointer value being transmitted.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:COUNT?	
Description	This query returns the counts in which negative pointer adjustment is detected for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Decr. Count Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Decr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:DECR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SEConds?

Description	This query returns the number of seconds in which negative pointer adjustment is detected for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Decr. Seconds Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Decr. Seconds
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:DECR:SEC?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:COUNT?	
Description	This query returns the count in which positive pointer adjustment is detected for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Incr. Count Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Incr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:INCR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:SEConds?	
Description	This query returns the number of seconds in which positive pointer adjustment is detected for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Incr. Seconds Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Incr. Seconds
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:INCR:SEC?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NDF:COUNT?	
Description	This query returns the count of New Data Flag (NDF). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > NDF Count Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > NDF Count
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NDF:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of counts of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NDF:COUN?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:SEConds?

Description	This query returns the number of seconds of New Data Flag (NDF) for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > NDF Seconds Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:SEConds?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:COUNT?	
Description	This query returns the count of No New Data Flag (NNDF). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > No NDF Count Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > No NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:COUNT?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of counts of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NNDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NNDF:SECond
s?

Description	This query returns the number of seconds of No New Data Flag (NNDF) for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > No NDF Seconds Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > No NDF Seconds
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:NNDF:SECONDS?
Response Syntax	<Seconds>
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NNDF:SEC?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:OFFSet?	
Description	This query returns the difference between the pointer increment and the pointer decrement for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Cumulative Offset Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Cumulative Offset
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:OFFSet?
Response Syntax	<Offset>
Response(s)	Offset: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the difference between the pointer increment and the pointer decrement.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:OFFS?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Pointer Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Pointer Value
Syntax	:FETCh:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?
Response Syntax	<Pointer>
Response(s)	Pointer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the actual pointer value being transmitted.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:VAL?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELEcom:SDHSonet:SEQuence:POINter:STATus?	
Description	This query returns the actual pointer status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Status
Syntax	:FETCh:DATA:TELEcom:SDHSonet:SEQuence:POINter:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the sequence pointer. STATPNTR, sequence pointer status is disabled. SEQUENCE, sequence pointer status is enabled.
Example(s)	FETC:DATA:TEL:SDHS:SEQuence:POINter:STATus?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELEcom:SDHSonet:SEQuence:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Pointer Value
Syntax	:FETCh:DATA:TELEcom:SDHSonet:SEQuence:POINter:VALue?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the sequence pointer value.
Example(s)	FETC:DATA:TEL:SDHS:SEQuence:POINter:VALue?
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement	
Description	This command selects the new decrement pointer value for High Order Path (HOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Decrement
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:DECR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE

Description	This command selects the number of negative pointer adjustment to include into the SONET or SDH for High Order Path (HOP). At *RST condition, this value is set to 1. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE <wsp><Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the pointer size between 1 through 1000.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE?	
Description	This query returns the selected number of negative pointer adjustment to include into the SONET or SDH for High Order Path (HOP). At *RST condition, this value is set to 1. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional.If no token is specified, the current number of negative pointer is returned.
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement

Description	This command selects the new increment pointer value for High Order Path (HOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Increment
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE	
Description	This command selects the number of positive pointer adjustment to include into the SONET or SDH for High Order Path (HOP). At *RST condition, this value is set to 1. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE <wsp><Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the pointer size between 1 through 1000. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE?

Description	This query returns the selected number of positive pointer adjustment to include into the SONET or SDH for High Order Path (HOP). At *RST condition, this value is set to 1. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of positive pointer is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW	
Description	This event sets the new pointer value for High Order Path (HOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:HOP:POIN:NEW
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG	
Description	This command selects the status of a new pointer data flag for High Order Path (HOP). At *RST condition, this value is set to NNDF. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG <wsp><Flag>
Parameter(s)	Flag: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the new pointer data flag. NNDF: the NNDF (No New Data Flag). NDF: the NDF (New Data Flag).
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG NNDF SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG? Returns: NNDF
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue?

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:FLAG?	
Description	This query returns the status of a new pointer data flag for High Order Path (HOP). At *RST condition, this value is set to NNDF. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Data Flag
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:FLAG?
Response Syntax	<Flag>
Response(s)	Flag: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the new pointer data flag. NNDF, No New Data Flag (NNDF) is selected. NDF, New Data Flag (NDF) is selected.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG NNDF SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG? Returns: NNDF
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

Description	This command sets the new pointer value for SONET/SDH of High Order Path (HOP). At *RST condition, this value reverts the default value. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue <wsp> <Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the new pointer value between 0 through 782. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Flag>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL? Returns: 15
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW

:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue?	
Description	This query returns the new pointer value for High Order Path (HOP). At *RST condition, this value reverts the default value. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer
Syntax	:SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:NEW:VALue[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional.If no token is specified, the current value of new pointer is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the new pointer value.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL? Returns: 15
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW?

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted into the SONET/SDH for High Order Path (HOP). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Pointer Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the actual pointer value being transmitted.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement	
Description	This command selects the new decrement pointer value for Low Order Path (LOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Decrement Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Decrement
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:DECR
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE

Description	This command selects the number of negative pointer adjustment to include into the SONET or SDH for Low Order Path (LOP). At *RST condition, this value is set to 1. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE <wsp><Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the pointer size. Choices are 1 through 1000. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SIZE?

Description	This query returns the selected number of negative pointer adjustment to include into the SONET or SDH for Low Order Path (LOP). At *RST condition, this value is set to 1. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SIZE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the value of pointer size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE? Returns: 15
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement	
Description	This command selects the new increment pointer value for Low Order Path (LOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Increment Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Increment
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:INCR
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE	
Description	This command selects the number of positive pointer adjustment to include into the SONET or SDH for Low Order Path (LOP). At *RST condition, this value is set to 1. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE <wsp><Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the pointer size. Choices are 1 through 1000. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?

Description	This query returns the selected number of positive pointer adjustment to include into the SONET or SDH for Low Order Path (LOP). At *RST condition, this value is set to 1. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the value of pointer size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15 SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW	
Description	This event sets the new pointer value for Low Order Path (LOP). This command is an event and has no associated *RST condition or query form. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer > Inject Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:LOP:POIN:NEW
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

Description	This command selects the status of a new pointer data flag for Low Order Path (LOP). At *RST condition, this value is set to NNDF. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Data Flag Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables New Data Flag: NDF: Enables. NNDF: Disables.
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG ON SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?	
Description	This query returns the status of a new pointer data flag for Low Order Path (LOP). At *RST condition, this value is set to NNDF. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Data Flag Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?
Response Syntax	<Flag>
Response(s)	Flag: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of LOP NEW FLAG 1, New pointer status is enabled 0, New pointer status is disabled
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG ON SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

Description	This command sets the new pointer value for SONET/SDH of Low Order Path (LOP). At *RST condition, this value reverts the default value. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the new pointer value. Choices are 0 through 103. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Flag>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?	
Description	This query returns the new pointer value for Low Order Path (LOP). At *RST condition, this value reverts the default value. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the new pointer value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the new pointer value.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15 SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL? Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted into the SONET/SDH for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Pointer Value Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Pointer Value
Syntax	:SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:VALue?
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the actual pointer value being transmitted.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:VAL?
See Also	SOURce:DATA:TELEcom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter	
Description	This command enables/disables the sequence pointer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter ON SOUR:DATA:TEL:SDHS:SEQuence:POINter? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:INITcool:STATUS

Description	This command sets the actual pointer init-cool status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Init-Cool
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:INITcool:STATUS <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATUS ON SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATUS? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:INITcool:STATus?	
Description	This query returns the actual pointer init-cool status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Init-Cool
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:INITcool:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the actual pointer init-cool status of Low Order Path (LOP) alarm generation. 0, actual pointer init-cool status is enabled. 1, actual pointer init-cool status is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATus? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement

**:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTe
rn**

Description	This command sets the Pattern type for pointer adjustment to include into the SONET/SDH BERT. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATtern <wsp> <Standard>
Parameter(s)	Standard: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Pattern type for pointer adjustment. OPPOSITEPOLARITY: Single pointers of opposite polarity DOUBLEPOINTER: Regular pointers plus one double pointer MISPOINTER: Regular pointers with one missing pointer DOUBLEOPPOLARITY: Double pointers of opposite polarity SINGLEPA: Double pointers of opposite polarity BURSTPA: Burst pointer adjustment PHASETRANS: Phase transient PAPATTERN: Periodic pointer adjustment 87-3 pattern ADD87: Periodic 87-3 with Add CANCEL87: Periodic 87-3 with Cancel PACONTINIOUS: Periodic pointer adjustment continuous ADDPACONTINIOUS: Periodic pointer adjustment continuous with Add CANCELPACONTINIOUS: Periodic pointer adjustment continuous with Cancel PER261: Periodic pointer adjustment 26-1 pattern ADDPER261: Periodic 26-1 with Add CANCELPER261: Periodic 26-1 with Cancel
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PATtern PHASETRANS
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTe rn?	
Description	This query returns the Pattern type for pointer adjustment to include into the SONET/SDH BERT. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATtern?
Response Syntax	<Pattern>

**:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTe
rn?**

Response(s)

Pattern:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Pattern type for pointer adjustment.

OPPOSITEPOLARITY, Single pointers of opposite polarity is selected.

DOUBLEPOINTER, Regular pointers plus one double pointer is selected.

MISPOINTER, Regular pointers with one missing pointer is selected.

DOUBLEOPPOLARITY, Double pointers of opposite polarity is selected.

SINGLEPA, Double pointers of opposite polarity is selected.

BURSTPA, Burst pointer adjustment is selected.

PHASETRANS, Phase transient is selected.

PAPATTERN, Periodic pointer adjustment 87-3 pattern is selected.

ADD87, Periodic 87-3 with Add is selected.

CANCEL87, Periodic 87-3 with Cancel is selected.

PACONTINIOUS, Periodic pointer adjustment continuous is selected.

ADDPACONTINIOUS, Periodic pointer adjustment continuous with Add is selected.

CANCELPACONTINIOUS, Periodic pointer adjustment continuous with Cancel is selected.

PER261, Periodic pointer adjustment 26-1 pattern is selected.

ADDPER261, Periodic 26-1 with Add is selected.

CANCELPER261, Periodic 26-1 with Cancel is selected.

Example(s)

SOUR:DATA:TEL:SDHS:SEQuence:POINter:PATTe rn?

Returns: PHASETRANS

See Also

SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:PERio dic:STATus	
Description	This command sets the actual pointer periodic status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Periodic
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:PERiodic:STATus <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PERiodic:STATUS ON SOUR:DATA:TEL:SDHS:SEQuence:POINter:PERiodic:STATUS? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:INCRement

:SOURce:DATA:TELEcom:SDHSonet:SEQUence:POINter:PERio
dic:STATus?

Description	This command sets the actual pointer init-cool status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Periodic
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQUence:POINter:PERiodic:STATus?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of actual pointer periodic status. 0, actual pointer periodic status is enabled. 1, actual pointer periodic status is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQUence:POINter:PERiodic:STATUS? Returns: 1
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:DECRement

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:TIMeline:VALUe	
Description	This command sets the Timeline Value status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > T1(s)
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:TIMeline:VALUe <wsp> <Type> , <Size>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Timeline value for pointer adjustment. T1: T1 T2: T2 T3: T3 T4: T4 T5: T5 T6: T6 Size: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Timeline value being transmitted for Low Order Path (LOP). Choices are 10 through 30 MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALUe T1, 10 SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALUe? T1 Returns: 10
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:TIMeline:VALUe?

Description	This query returns the Timeline Value status being transmitted for Low Order Path (LOP). At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > T1(s)
Syntax	:SOURce:DATA:TELEcom:SDHSonet:SEQuence:POINter:TIMeline:VALUe? <wsp> <Type>,[<Value>]
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Timeline value for pointer adjustment. T1: T1 T2: T2 T3: T3 T4: T4 T5: T5 T6: T6 Value: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the Timeline value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Timeline value being transmitted for Low Order Path (LOP).
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALUe? Returns: 10
See Also	SOURce:DATA:TELEcom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE	
Description	This command sets the Pointer type for pointer adjustment to include into the SONET/SDH BERT. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Pointer type for pointer adjustment. INCR DECR
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TYPE INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE?

Description	This query returns the Pointer type for pointer adjustment to include into the SONET/SDH BERT. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE?
Response Syntax	<Pointer>
Response(s)	Pointer: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Pointer type for pointer adjustment. INCR, INCR is selected as Pointer type for pointer adjustment DECR, DECR is selected as Pointer type for pointer adjustment
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TYPE? Returns: INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter?	
Description	This query returns the status of the sequence pointer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the sequence pointer. 0, sequence pointer is enabled. 1, sequence pointer is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter ON SOUR:DATA:TEL:SDHS:SEQuence:POINter? Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

Spare Bits

:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Description	This query returns spare bit values. At *RST condition, this value is set to 10. Navigation Path: Functions > Spare Bits > RX
Syntax	:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues? <wsp> <Bits>
Parameter(s)	Bits: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Gets the Spare bit values. BITSi0: Bit S i0 BITSA4: Bit S a4 BITSA6: Bit S a6 BITSA8: Bit S a8 BITSI1: Bit S i1 BITSA5: Bit S a5 BITSA7: Bit S a7 BITTS16: TS16 Frame 0 Bit 5, 7, 8 BITTS16B6: TS16 Frame 0 Bit 6 GBITE: G.742 for E2, G.751 for E3, G.751 for E4
Response Syntax	<Value>

:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the spare bit values
Example(s)	FETC:DATA:TEL:PDH:E:SPAR:VAL? BITSIO Returns: 0
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUnt? SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues

Description	This command sets the protocol present in the signal structured At *RST condition, this value is set to 10. Navigation Path: Functions > Spare Bits > TX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues <wsp><Bits>, <Values>
Parameter(s)	Bits: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Spare bit values. BITSIO: Bit S i0 BITSA4: Bit S a4 BITSA6: Bit S a6 BITSA8: Bit S a8 BITSI1: Bit S i1 BITSA5: Bit S a5 BITSA7: Bit S a7 BITTS16: TS16 Frame 0 Bit 5, 7, 8 BITTS16B6: TS16 Frame 0 Bit 6 GBITE: G.742 for E2, G.751 for E3, G.751 for E4 Values: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the values for spare bits.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PDH:E:SPAR:VAL BITSIO, 0
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOUnt? SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues?	
Description	This query returns spare bit values. At *RST condition, this value is set to 10. Navigation Path: Functions > Spare Bits > TX
Syntax	:SOURce:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues? <wsp> <Bits>,[<Token>]
Parameter(s)	Bits: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Spare bit values. BITSi0: Bit S i0 BITSA4: Bit S a4 BITSA6: Bit S a6 BITSA8: Bit S a8 BITSI1: Bit S i1 BITSA5: Bit S a5 BITSA7: Bit S a7 BITTS16: TS16 Frame 0 Bit 5, 7, 8 BITTS16B6: TS16 Frame 0 Bit 6 GBITE: G.742 for E2, G.751 for E3, G.751 for E4 Token: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Get the Spare bit values. MAX: Maximum Value MIN: Minimum Value
Response Syntax	<Value>

:SOURce:DATA:TELEcom:PDH:E[1..n]:SPARbit:VALues?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the spare bit values
Example(s)	SOUR:DATA:TEL:PDH:E:SPAR:VAL BITSIO, 0 SOUR:DATA:TEL:PDH:E:SPAR:VAL? BITSIO Returns: 0
See Also	SOURce:DATA:TELEcom:DSN:FEAC SOURce:DATA:TELEcom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOUnt SOURce:DATA:TELEcom:DSN:FEAC:MANual:INJect

40/100/400G Advanced - Lanes Mapping & Skew

:SENSe:DATA:TELecom:OTN:OTL:RX?	
Description	This query returns the value of the received bits which depends on the selected link layer. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew RX
Syntax	:SENSe:DATA:TELecom:OTN:OTL:RX? <wsp><Physical Lane>, <Link Layer Type>
Parameter(s)	Physical Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the physical lane skew. The range for the physical lane is from 0 to 19. Link Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW: SKEW LOGicallane: Logicallylane
Response Syntax	<Llayer>
Response(s)	Llayer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the link layer virtual to physical lane skew for the receiver.
Example(s)	SENS:DATA:TEL:OTN:OTL:RX? 1, SKEW
See Also	SOURce:DATA:TELecom:OTN:OTL:TX?

:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPING:DEFault	
Description	This command injects the default mapping for the link layer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Default Mapping (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPING:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:DEF
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPING:MANual

:SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:MANUal	
Description	This command selects the Manual Mapping mode for the link layer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping (dropdown)
Syntax	:SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:MANUal
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:MAN
See Also	SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:RANDom

:SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:RANDom

Description	This command injects the random mapping for the link layer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Random Mapping (dropdown)
Syntax	:SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:RANDom
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:RAND
See Also	SOURce:DATA:TELeom:ETHernet:LLAYer:MAPPing:DEFault

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:RESet	
Description	This command resets the SKEW (Bit Time) for the link layer. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Reset Skew (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:RESet
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:RES
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault

:SOURce:DATA:TELeom:OTN:OTL:MAPPING:DEFault

Description	This command injects the default mapping for the link layer. At *RST condition, this value is set to Default Mapping. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELeom:OTN:OTL:MAPPING:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:DEF
See Also	SOURce:DATA:TELeom:OTN:OTL:MAPPING:RANDom

:SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual	
Description	This command selects the Manual Mapping mode for link layer. At *RST condition, this value is set to Default Mapping. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:MAN
See Also	SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom

:SOURce:DATA:TELEcom:OTN:OTL:MAPPing:RANDom

Description	This command injects the random mapping for the link layer. At *RST condition, this value is set to Default Mapping. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:MAPPing:RANDom
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:RAND
See Also	SOURce:DATA:TELEcom:OTN:OTL:MAPPing:MANual

:SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet	
Description	This command resets the SKEW (Bit Time) for the link layer. At *RST condition, this value is set to Reset Skew. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Reset Skew (dropdown)
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:RES
See Also	SOURce:DATA:TELecom:OTN:OTL:THReshold:DEFault

:SOURce:DATA:TELecom:OTN:OTL:THReshold

Description	This command sets the OTL Threshold Value. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold
Syntax	:SOURce:DATA:TELecom:OTN:OTL:THReshold <wsp><Threshold>
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets Skew Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR 20
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

:SOURce:DATA:TELeom:OTN:OTL:THReshold:DEFault	
Description	This command resets the OTL Threshold Value to its default value. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold Default
Syntax	:SOURce:DATA:TELeom:OTN:OTL:THReshold:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR:DEF
See Also	SOURce:DATA:TELeom:OTN:OTL:SKEW:RESet

:SOURce:DATA:TELecom:OTN:OTL:THReshold?

Description	This query returns the Alarm Threshold Value for TX. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold
Syntax	:SOURce:DATA:TELecom:OTN:OTL:THReshold?[<wsp><Threshold>]
Parameter(s)	Threshold: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets Skew Threshold. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Skew Alarm Thershold>
Response(s)	Skew Alarm Thershold: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Skew Threshold. MAXimum, indicates maximum as the Skew Threshold. MINimum, indicates minimum as the Skew Threshold.
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR 20 SOUR:DATA:TEL:OTN:OTL:THR? Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

40/100/400G Advanced - CFP4/CFP8/QSFP Control

:SENSe:DATA:TELecom:CFP:TX:STATus?	
Description	This query returns the CFP TX status. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP TX Status
Syntax	:SENSe:DATA:TELecom:CFP:TX:STATus? <wsp> <Lane>
Parameter(s)	Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the CFP TX pins. INLOC, indicates the optical lane is in LOC. NOTINLOC, indicates the optical lane is not in LOC.
Example(s)	SENS:DATA:TEL:CFP:TX:STAT? 1
See Also	SOURce:DATA:TELecom:CFP:STATus?

:SOURce:DATA:TELeom:CFP:CPWR?

Description	This query returns the Connector Power classes. At *RST condition, this value is set to setup-dependent. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > Connector Power Class
Syntax	:SOURce:DATA:TELeom:CFP:CPWR?
Response Syntax	<Class>
Response(s)	Class: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. This query returns the Connector Power Class. 4_5W, 4.5W is selected as Connector Power Class for CFP4. 3W, 3W is selected as Connector Power Class for CFP4. 8W, 8W is selected as Connector Power Class for CFP4.
Example(s)	SOUR:DATA:TEL:CFP:CPWR?
See Also	SOURce:DATA:TELeom:CFP:CPWR?

:SOURce:DATA:TELecom:CFP:CSEtting	
Description	This command enables/disables Control settings for TX & RX IC RST, TX Disable, Module Low Power Mode, Module Reset, CFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Control Pins
Syntax	:SOURce:DATA:TELecom:CFP:CSEtting <wsp><State>, <Set>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. TXRXRst: TX & RX IC RST. TXDis: TX Disable. MOLOpwn: Module Low Power Mode. MODrst: Module Reset. CFPshutdown: CFP Power Shutdown. Set: The program data syntax for the second parameter is defined as a <BOOLEAN RESPONSE DATA> element. enables/disables the selected control settings. ON, enables the selected control settings. OFF, disables the selected control settings.
Response Syntax	<Class>
Example(s)	SOUR:DATA:TEL:CFP:CSET CFP,ON SOUR:DATA:TEL:CFP:CSET? CFP Returns: 1
See Also	SOURce:DATA:TELecom:CFP:STATus?

:SOURce:DATA:TELeom:CFP:CSEtting?

Description	This query returns the status of Control settings for TX & RX IC RST, TX Disable, Module Low Power Mode, Module Reset, CFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Control Pins
Syntax	:SOURce:DATA:TELeom:CFP:CSEtting? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. TXRXRst: TX & RX IC RST. TXDis: TX Disable. MOLOpwn: Module Low Power Mode. MODrst: Module Reset. CFPshutdown: CFP Power Shutdown.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the state of selected control settings. TXRXRST, indicates the TX & RX IC RST. TXDIs, indicates the TX Disable. MOLOpwn, indicates Module Low Power Mode. MODRst, indicates Module Reset. CFPSShutdown, indicates CFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:CFP:CSET MOD,ON SOUR:DATA:TEL:CFP:CSET? MOD Returns: 1
See Also	SOURce:DATA:TELeom:CFP:STATus?

:SOURce:DATA:TELecom:CFP:RCLock	
Description	This command selects the reference clock value. At *RST condition, this value is set to setup-dependent. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Reference Clock
Syntax	:SOURce:DATA:TELecom:CFP:RCLock <wsp><Clock>
Parameter(s)	Clock: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the reference clock value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CFP:RCL 161.1328
See Also	SOURce:DATA:TELecom:CFP:RCLock?

:SOURce:DATA:TELecom:CFP:RCLock?

Description	This query returns the reference clock value. At *RST condition, this value is set to setup-dependent. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Reference Clock
Syntax	:SOURce:DATA:TELecom:CFP:RCLock?
Response Syntax	<clockValue>
Response(s)	clockValue: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This query returns the reference clock value.
Example(s)	SOUR:DATA:TEL:CFP:RCL?
See Also	SOURce:DATA:TELecom:CFP:RCLock

:SOURce:DATA:TELEcom:CFP:STATus?	
Description	This query returns the status of the CFP status pins. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Status Pins
Syntax	:SOURce:DATA:TELEcom:CFP:STATus? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the status of CFP Status Pins. HPDstate: HI Power On. NREady: Module Ready. MFAult: Module Fault. MABsent: Module Absent. RXLoss: RX Loss of Signal. AActive: Global Alarm.
Response Syntax	<Status>

:SOURce:DATA:TELecom:CFP:STATus?

Response(s)

Status:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the CFP Status Pins.

UP, indicates the HI power ON.

DOWN, indicates the HI power OFF.

READY, indicates the Module is ready.

NOTREADY, indicates the Module is not ready.

NFAULT, indicates the Module is not faulty.

FAULT, indicates the Module is faulty.

PRESENT, indicates the CFP Status Pins is present.

ABSENT, indicates the CFP Status Pins is absent.

OK, indicates the signal is OK.

RXLOSS, indicates the loss of signal.

ALARM, indicates the global alarm is present.

NOALARM, indicates the global alarm is absent.

Example(s)

SOUR:DATA:TEL:CFP:STAT? HPD

See Also

SOURce:DATA:TELecom:CFP:CPRating

SOURce:DATA:TELecom:CFP:CPRating?

:SOURce:DATA:TELecom:MDIO:ADDRess	
Description	This command sets the address for MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:ADDRess <wsp><Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:MDIO:ADDR #H0005 SOUR:DATA:TEL:MDIO:ADDR? Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:DATA SOURce:DATA:TELecom:MDIO:DATA?

:SOURce:DATA:TELecom:MDIO:ADDRes?

Description	This query returns the address for MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:ADDRes?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the MDIO/I2C address.
Example(s)	SOUR:DATA:TEL:MDIO:ADDR #H0005 SOUR:DATA:TEL:MDIO:ADDR? Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:DATA SOURce:DATA:TELecom:MDIO:DATA?

:SOURce:DATA:TELEcom:MDIO:DATA	
Description	This command sets the data for MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELEcom:MDIO:DATA <wsp><Data>
Parameter(s)	Data: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the data for MDIO/I2C.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:MDIO:DATA #H0005 SOUR:DATA:TEL:MDIO:DATA? Returns: 5
See Also	SOURce:DATA:TELEcom:MDIO:ADDRes SOURce:DATA:TELEcom:MDIO:ADDRes?

:SOURce:DATA:TELeom:MDIO:DATA?

Description	This query returns the data for MDIO/I2C . At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELeom:MDIO:DATA?
Response Syntax	<Data>
Response(s)	Data: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the data for MDIO/I2C.
Example(s)	SOUR:DATA:TEL:MDIO:DATA #H0005 SOUR:DATA:TEL:MDIO:DATA? Returns: 5
See Also	SOURce:DATA:TELeom:MDIO:ADDRes SOURce:DATA:TELeom:MDIO:ADDRes?

:SOURce:DATA:TELecom:MDIO:DEVIce:ADDReSS	
Description	This command sets the Device address value of the SFP I2C Access Interface. At *RST condition, this value is set to _0XA0. Navigation Path: Functions > <rate> Advanced > SFP Control > I2C Access Interface > Device Address
Syntax	:SOURce:DATA:TELecom:MDIO:DEVIce:ADDReSS <wsp><Device Address>
Parameter(s)	Device Address: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. _0XA0: _0XA0 _0XA2: _0XA2
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:DEV:ADDR _0XA0 SOUR:DATA:TEL:MDIO:DEV:ADDR? Returns: _0XA0
See Also	SOURce:DATA:TELecom:MDIO:PGSelect?

:SOURce:DATA:TELecom:MDIO:DEVIce:ADDRess?

Description	This query returns the Device Address value of the SFP I2C Access Interface. At *RST condition, this value is set to _0XA0. Navigation Path: Functions > <rate> Advanced > SFP Control > I2C Access Interface > Device Address
Syntax	:SOURce:DATA:TELecom:MDIO:DEVIce:ADDRess?
Response Syntax	<Device Address>
Response(s)	Device Address: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Device Address _0XA0: 0xA0 _0XA2: 0xA2
Example(s)	SOUR:DATA:TEL:MDIO:DEV:ADDR _0XA0 SOUR:DATA:TEL:MDIO:DEV:ADDR? Returns: _0XA0
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

:SOURce:DATA:TELecom:MDIO:END:ADDRess	
Description	This command sets the end address for MDIO/I2C . At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:END:ADDRess[<wsp><EndAddress>]
Parameter(s)	EndAddress: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C end address.
Response Syntax	<Device Address>
Example(s)	SOUR:DATA:TEL:MDIO:END:ADDR #H0005 SOUR:DATA:TEL:MDIO:END:ADDR? Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:STARt:ADDRess SOURce:DATA:TELecom:MDIO:STARt:ADDRess?

:SOURce:DATA:TELEcom:MDIO:END:ADDRes?

Description	This query returns the end address for MDIO/I2C . At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELEcom:MDIO:END:ADDRes?
Response Syntax	<EndAddress>
Response(s)	EndAddress: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the MDIO/I2C end address.
Example(s)	SOUR:DATA:TEL:MDIO:END:ADDR #H0005 SOUR:DATA:TEL:MDIO:END:ADDR? Returns: 5
See Also	SOURce:DATA:TELEcom:MDIO:STARt:ADDRes SOURce:DATA:TELEcom:MDIO:STARt:ADDRes?

:SOURce:DATA:TELecom:MDIO:PGSelect	
Description	This command sets the Page Select value of the QSFP I2C Access Interface. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > QSFP Control > MDIO Access Interface > Bulk Read > MDIO Access
Syntax	:SOURce:DATA:TELecom:MDIO:PGSelect <wsp><Page Select>
Parameter(s)	Page Select: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Set Page Selected
Response Syntax	<EndAddress>
Example(s)	SOUR:DATA:TEL:MDIO:PGS 2 SOUR:DATA:TEL:MDIO:PGS? Returns 2
See Also	SOURce:DATA:TELecom:MDIO:PGSelect?

:SOURce:DATA:TELeom:MDIO:PGSelect?

Description	This query returns the Page Select value of the QSFP I2C Access Interface. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > QSFP Control > MDIO Access Interface
Syntax	:SOURce:DATA:TELeom:MDIO:PGSelect?
Response Syntax	<Page Select>
Response(s)	Page Select: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Page Selected.
Example(s)	SOUR:DATA:TEL:MDIO:PGS 2 SOUR:DATA:TEL:MDIO:PGS? Returns 2
See Also	SOURce:DATA:TELeom:MDIO:PGSelect

:SOURce:DATA:TELecom:MDIO:READ	
Description	This command reads the MDIO/I2C values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:READ
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:MDIO:READ
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:MDIO:STARt:ADDRess

Description	This command sets the start address for MDIO/I2C . At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:STARt:ADDRess[<wsp><StartAddress>]
Parameter(s)	StartAddress: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C start address.
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:MDIO:STAR:ADDR #H0005 SOUR:DATA:TEL:MDIO:STAR:ADDR? Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:END:ADDRess SOURce:DATA:TELecom:MDIO:END:ADDRess?

:SOURce:DATA:TELecom:MDIO:STARt:ADDRes?	
Description	This query returns the start address for MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:STARt:ADDRes?
Response Syntax	<StartAddress>
Response(s)	StartAddress: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the MDIO/I2C start address.
Example(s)	SOUR:DATA:TEL:MDIO:STAR:ADDR #H0005 SOUR:DATA:TEL:MDIO:STAR:ADDR? Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:END:ADDRes SOURce:DATA:TELecom:MDIO:END:ADDRes?

:SOURce:DATA:TELecom:MDIO:WRITe

Description	This command writes the MDIO/I2C values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:WRITe
Response Syntax	<StartAddress>
Example(s)	SOUR:DATA:TEL:MDIO:WRIT
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:OSFP:CPWR?	
Description	This query returns the OSFP Power Class. At *RST condition, this value is set to 8W. Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Power Class
Syntax	:SOURce:DATA:TELecom:OSFP:CPWR?
Response Syntax	<Power class>
Response(s)	Power class: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. This query returns the OSFP Power Class. 1.5W,1.5W is selected as Connector Power class for OSFP . 2W, 2W is selected as Connector Power class for OSFP . 2.5W, 2.5W is selected as Connector Power class for OSFP . 3.5W, 3.5W is selected as Connector Power class for OSFP . 4W, 4W is selected as Connector Power class for OSFP . 4.5W, 4.5W is selected as Connector Power class for OSFP . 5W, 5W is selected as Connector Power class for OSFP .
Example(s)	SOUR:DATA:TEL:OSFP:CPWR?
See Also	SOURce:DATA:TELecom:QSFP:CPWR?

:SOURce:DATA:TELeom:OSFP:CSETting

Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, OSFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Control Pins
Syntax	:SOURce:DATA:TELeom:OSFP:CSETting <wsp><State>, <Status>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. MOLOpwn: Module Low Power Mode. MODrst: Module Reset. OSFPshutdown: OSFP Power Shutdown. Status: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables <Power class>
Response Syntax	
Example(s)	SOUR:DATA:TEL:OSFP:CSET OSFP,ON SOUR:DATA:TEL:OSFP:CSET? OSFP Returns: 1
See Also	SOURce:DATA:TELeom:OSFP:STATus?

:SOURce:DATA:TELecom:OSFP:CSEtting?	
Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, OSFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Control Pins
Syntax	:SOURce:DATA:TELecom:OSFP:CSEtting? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. MOLOpwn: Module Low Power Mode. MODRst: Module Reset. OSFPshutdown: OSFP Power Shutdown.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the state of selected control settings. MOLOpwn, indicates Module Low Power Mode. MODRst, indicates Module Reset. OSFPshutdown, indicates OSFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:OSFP:CSET OSFP,ON SOUR:DATA:TEL:OSFP:CSET? OSFP Returns: 1
See Also	SOURce:DATA:TELecom:OSFP:STATus?

:SOURce:DATA:TELecom:OSFP:STATus?

Description	This query returns the status of the OSFP status pins. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Status Pins
Syntax	:SOURce:DATA:TELecom:OSFP:STATus? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the status of OSFP Status Pins. MABsent: Module Absent.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the OSFP Status Pins. PRESENT, indicates the OSFP Status Pins is present. ABSENT, indicates the OSFP Status Pins is absent.
Example(s)	SOUR:DATA:TEL:OSFP:STAT? MAB
See Also	SOURce:DATA:TELecom:OSFP:STATus?

:SOURce:DATA:TELecom:QSFP:CPWR?	
Description	This query returns the QSFP Power Class. At *RST condition, this value is set to 8W. Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Power Class
Syntax	:SOURce:DATA:TELecom:QSFP:CPWR?
Response Syntax	<Power class>
Response(s)	Power class: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. This query returns the QSFP Power Class. 1.5W, 1.5W is selected as Connector Power class for QSFP. 2W, 2W is selected as Connector Power class for QSFP. 2.5W, 2.5W is selected as Connector Power class for QSFP. 3.5W, 3.5W is selected as Connector Power class for QSFP. 4W, 4W is selected as Connector Power class for QSFP. 4.5W, 4.5W is selected as Connector Power class for QSFP. 5W, 5W is selected as Connector Power class for QSFP.
Example(s)	SOUR:DATA:TEL:QSFP:CPWR?
See Also	SOURce:DATA:TELecom:QSFP:CPWR?

:SOURce:DATA:TELeom:QSFP:CSETting

Description	This command enables/disables Control Pins for Module Low Power Mode, Module Reset, QSFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Control Pins
Syntax	:SOURce:DATA:TELeom:QSFP:CSETting <wsp><State>, <Status>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. MOLOpwn: Module Low Power Mode. MODrst: Module Reset. QSFPshutdown: QSFP Power Shutdown. Status: The program data syntax for the second parameter is defined as a <BOOLEAN RESPONSE DATA> element. Enables/disables: ON: Enables OFF: Disables <Power class>
Response Syntax	
Example(s)	SOUR:DATA:TEL:QSFP:CSET QSFP,ON SOUR:DATA:TEL:QSFP:CSET? QSFP Returns: 1
See Also	SOURce:DATA:TELeom:QSFP:STATus?

:SOURce:DATA:TELecom:QSFP:CSEtting?	
Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, QSFP Power Shutdown. At *RST condition, this value is set to OFF. Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Control Pins
Syntax	:SOURce:DATA:TELecom:QSFP:CSEtting? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Control settings. MOLOpwn: Module Low Power Mode. MODRst: Module Reset. QSFPshutdown: QSFP Power Shutdown.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the state of selected control settings. MOLOpwn, indicates Module Low Power Mode. MODRst, indicates Module Reset. QSFPshutdown, indicates QSFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:QSFP:CSET QSFP,ON SOUR:DATA:TEL:QSFP:CSET? QSFP Returns: 1
See Also	SOURce:DATA:TELecom:QSFP:STATus?

:SOURce:DATA:TELeom:QSFP:STATus?

Description	This query returns the status of the QSFP status pins. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Status Pins
Syntax	:SOURce:DATA:TELeom:QSFP:STATus? <wsp><State>
Parameter(s)	State: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the status of QSFP Status Pins. MABsent: Module Absent.
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of the QSFP Status Pins. PRESENT, indicates the QSFP Status Pins is present. ABSENT, indicates the QSFP Status Pins is absent.
Example(s)	SOUR:DATA:TEL:QSFP:STAT? MAB
See Also	SOURce:DATA:TELeom:QSFP:STATus?

Default/Random/Manual Mapping

:SENSe:DATA:TELEcom:ETHernet:LLayer:RX?	
Description	This query returns the RX Lane. At *RST condition, this value is set to 0. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SENSe:DATA:TELEcom:ETHernet:LLayer:RX? <wsp> <Physical Lane>, <Link Layer Type>
Parameter(s)	Physical Lane: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the physical lane skew. The range for the physical lane is from 0 to 19. The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number. Link Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW: SKEW PCS: PCS
Response Syntax	<Llayer>
Response(s)	Llayer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the link layer virtual to physical lane skew for the receiver.
Example(s)	SENS:DATA:TEL:ETH:LLAY:RX? 8,PCS
See Also	SENSe:DATA:TELEcom:ETHernet:WIS:TRACe?

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane

Description	This command sets the applied change(s) to all PCS/Logical Lane at once. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects All lanes. ON, enables All lanes. OFF, disables All lanes.
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL OFF SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL? Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX	
Description	This command sets the value for all PCS/Logical Lane when the All Lanes check box is selected. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX <wsp> <SKEW>
Parameter(s)	SKEW: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the skew for all.
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALL:TX 50 SOUR:DATA:TEL:ETH:LLAY:SKEW:ALL:TX? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?

Description	This query returns the value for all PCS/Logical Lane when the All Lanes check box is selected. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?
Response Syntax	<Skew>
Response(s)	Skew: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the all lane Skew value.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALL:TX 50 SOUR:DATA:TEL:ETH:LLAY:SKEW:ALL:TX? Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?	
Description	This query returns the status of the applied change(s) to all PCS/Logical Lane. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of All lanes selection. 1, All lane status enabled. 0, All lane status disabled.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL ON SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:LLAYer:TX

Description	This command sets the TX Lane. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:TX <wsp><LaneNo>, <Layer Type>, <Skew Value or Lane Marker Number>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the selected layer. The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number. Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW: SKEW PCS: PCS Skew Value or Lane Marker Number: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. - Sets the Lane Marker number in case Link Layer Type equals PCS - Sets the Skew value in case Link Layer Type equals SKEW : DEfault: Default skew value MAXimum: Maximum skew value MINimum: Minimum skew value Numerical skew value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:TX 5,PCS,2 SOUR:DATA:TEL:ETH:LLAY:TX? 5,PCS Returns: 2
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHeRnet:LLAYer:TX?	
Description	This query returns the TX Lane. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping
Syntax	:SOURce:DATA:TELecom:ETHeRnet:LLAYer:TX? <wsp><LaneNo>, <Layer Type>,[<Skew value Token>]
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane for the layer. The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number. Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW PCS Skew value Token: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. - Applicable only when Link Layer Type is SKEW DEfault: Default skew value MAximum: Maximum skew value MINimum: Minimum skew value
Response Syntax	<Llayer>

:SOURce:DATA:TELeom:ETHernet:LLAYer:TX?

Response(s)	Llayer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. - Returns the skew value for the specified lane number if the Link Layer Type is SKEW - Returns the lane marker number mapped to the specified lane number if the Link Layer Type is PCS.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:TX 5,PCS,2 SOUR:DATA:TEL:ETH:LLAY:TX? 5,PCS Returns: 2
See Also	SOURce:DATA:TELeom:ETHernet:LLAYer:SKEW:ALLLane 1

Reset/Manual Skew

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane	
Description	This command sets the All Lane. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALL 1
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX

Description	This command sets the skew value for all lanes for the transmitted link. At *RST condition, this value is set to 0. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All > Skew Inc/Dec Size
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX <wsp><Skew>
Parameter(s)	Skew: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the skew for all. MAXimum: Maximum MINimum: Minimum
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALL:TX 50
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?

:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane:TX?	
Description	This query returns the All Lane status for transmitted link. At *RST condition, this value is set to 0. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane:TX?[<wsp><Skew>]
Parameter(s)	Skew: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value is returned. MAXimum: Maximum MINimum: Minimum
Response Syntax	<Skew>
Response(s)	Skew: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the all lane Skew value.
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALL:TX?
See Also	SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane SOURce:DATA:TELEcom:OTN:OTL:SKEW:ALLLane?

:SOURce:DATA:TELeom:OTN:OTL:SKEW:ALLLane?

Description	This query returns the All Lane status. At *RST condition, this value is set to OFF. Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELeom:OTN:OTL:SKEW:ALLLane?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of All lanes selection. 1, returns the all lane status as ON. 0, returns the all lane status as OFF.
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL ON SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL? Returns: 1
See Also	SOURce:DATA:TELeom:OTN:OTL:SKEW:ALLLane:TX SOURce:DATA:TELeom:OTN:OTL:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:OTN:OTL:TX	
Description	This command sets the value of the transmitted bits which depends on the selected link layer type. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SOURce:DATA:TELecom:OTN:OTL:TX <wsp><LaneNo>, <Link Layer Type>, <TX Value>
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. The Lane used for the skew is a logical lane number. The Lane used for LOG is a physical lane number. Link Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW: SKEW LOGicallane: Logicallane TX Value: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TX value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTL:TX 3,SKEW,MIN SOUR:DATA:TEL:OTN:OTL:TX 5,LOG,2
See Also	SENSe:DATA:TELecom:OTN:OTL:RX?

:SOURce:DATA:TELecom:OTN:OTL:TX?

Description	This query returns the value of the transmitted bits which depends on the selected link layer. At *RST condition, this value is set to device-dependent. Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SOURce:DATA:TELecom:OTN:OTL:TX? <wsp><LaneNo>, <Link Layer Type>,[<TX Value>]
Parameter(s)	LaneNo: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. The Lane used for the skew is a logical lane number. The Lane used for LOG is a physical lane number. Link Layer Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Link Layer Type. SKEW: SKEW LOGicallane: Logicallane TX Value: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TX value. This parameter is optional. If no token is specified, the current value of transmitted bits is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Llayer>
Response(s)	Llayer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the link layer virtual to physical lane skew for the transmitter.

:SOURce:DATA:TELEcom:OTN:OTL:TX?	
Example(s)	SOUR:DATA:TEL:OTN:OTL:TX? 5,LOG
See Also	SOURce:DATA:TELEcom:OTN:OTL:TX?

Bulk Read

:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Description	This command bulk reads the MDIO/I2C values from given MDIO/I2C address range. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Read > MDIO/I2C Access
Syntax	:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?
Response Syntax	<Address and Data>
Response(s)	Address and Data: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the list of address and data values.
Example(s)	FETC:DATA:TEL:MDIO:BULK:READ:INF?
See Also	SOURce:DATA:TELecom:MDIO:BULK:READ

SCPI Command Reference

Bulk Read

:SOURce:DATA:TELecom:MDIO:BULK:READ	
Description	This command bulk reads the MDIO/I2C values. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:READ
Response Syntax	<Address and Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:READ
See Also	SOURce:DATA:TELecom:MDIO:READ

Bulk Write

:SOURce:DATA:TELeom:MDIO:BULK:WRITe

Description	This command writes the Bulk MDIO/I2C values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > Bulk Write Button.
Syntax	:SOURce:DATA:TELeom:MDIO:BULK:WRITe
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT
See Also	SOURce:DATA:TELeom:MDIO:WRITe

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess	
Description	This command sets the address for Bulk Write MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Address.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess <wsp><Row>, <Address>
Parameter(s)	Row: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the row number. Address: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C address.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR 1, #H0005 SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR? 1 Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

:SOURce:DATA:TELeom:MDIO:BULK:WRITe:ADDRess?

Description	This query returns the Bulk Write Address for MDIO/I2C table row. At *RST condition, this value is set to 0000. NAavigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Address.
Syntax	:SOURce:DATA:TELeom:MDIO:BULK:WRITe:ADDRess? <wsp><Row>
Parameter(s)	Row: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the row number.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the MDIO/I2C address for row
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR? 1
See Also	SOURce:DATA:TELeom:MDIO:BULK:WRITe:DATA SOURce:DATA:TELeom:MDIO:BULK:WRITe:DATA?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA	
Description	This command sets the data for Bulk Write MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Data.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA <wsp><Row>, <Data>
Parameter(s)	Row: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the row number Data: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C data value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA 1, #H0005 SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA? 1 Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDReSS SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDReSS?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

Description	This query returns the Bulk Write Data for MDIO/I2C table row. At *RST condition, this value is set to 0000. NAavigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Data.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA? <wsp><Row>
Parameter(s)	Row: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the row number
Response Syntax	<Data>
Response(s)	Data: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the MDIO/I2C data value for row
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA? 1
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRes SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRes?

:SOURce:DATA:TELeom:MDIO:BULK:WRITe:DEFault	
Description	This command default 0000 the Bulk MDIO/I2C values. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > Default Button.
Syntax	:SOURce:DATA:TELeom:MDIO:BULK:WRITe:DEFault
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DEF
See Also	SOURce:DATA:TELeom:MDIO:BULK:WRITe

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect

Description	This command sets the Page Select value of the QSFP I2C Access Interface. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > QSFP Control > I2C Access Interface > Bulk Write > Page Select
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect <wsp><Page Select>
Parameter(s)	Page Select: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets Page Selected
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS 2 SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS? Returns: 2
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?	
Description	This query returns the Page Select value of the QSFP I2C Access Interface. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > QSFP Control > I2C Access Interface > Bulk Write > Page Select
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?
Response Syntax	<Page Select>
Response(s)	Page Select: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Page Selected.
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS 2 SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS? Returns: 2
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect

Ping & Trace Route

:FETCh:DATA:TELEcom:PING:STATistics:AVERage?

Description	This query returns the average measured round trip time required for a Ping request. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELEcom:PING:STATistics:AVERage?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the average measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:AVER?
See Also	FETCh:DATA:TELEcom:PING:STATistics:TX?

:FETCh:DATA:TELecom:PING:STATistics:LOST?	
Description	This query returns the percentage of lost packets. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:LOST?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the percentage of lost packets.
Example(s)	FETC:DATA:TEL:PING:STAT:LOST?
See Also	FETCh:DATA:TELecom:PING:STATistics:MINimum?

:FETCh:DATA:TELecom:PING:STATistics:MAXimum?

Description	This query returns the maximum measured round trip time required for a Ping request. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:MAXimum?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the maximum measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:MAX?
See Also	FETCh:DATA:TELecom:PING:STATistics:AVERage?

:FETCh:DATA:TELecom:PING:STATistics:MINimum?

Description	This query returns the minimum measured round trip time required for a Ping request. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:MINimum?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:MIN?
See Also	FETCh:DATA:TELecom:PING:STATistics:MAXimum?

:FETCh:DATA:TELecom:PING:STATistics:RESults?

Description	This query returns the list of Ping Statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results
Syntax	:FETCh:DATA:TELecom:PING:STATistics:RESults?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the list of Ping Statistics.
Example(s)	FETC:DATA:TEL:PING:STAT:RES?
See Also	FETCh:DATA:TELecom:PING:STATistics:TX?

:FETCh:DATA:TELecom:PING:STATistics:RX?	
Description	This query returns the number of packets received. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:RX?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of packets received.
Example(s)	FETC:DATA:TEL:PING:STAT:RX?
See Also	FETCh:DATA:TELecom:PING:STATistics:LOST?

:FETCh:DATA:TELecom:PING:STATistics:TX?

Description	This query returns the number of packets sent. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:TX?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of packets sent.
Example(s)	FETC:DATA:TEL:PING:STAT:TX?
See Also	FETCh:DATA:TELecom:PING:STATistics:RX?

:FETCh:DATA:TELEcom:TRACe:STATistics:RESults?	
Description	This query returns the list of Trace Statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results
Syntax	:FETCh:DATA:TELEcom:TRACe:STATistics:RESults?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the list of Trace Statistics.
Example(s)	FETC:DATA:TEL:TRAC:STAT:RES?
See Also	FETCh:DATA:TELEcom:TRACe:STATistics:TX?

:FETCh:DATA:TELecom:TRACe:STATistics:RX?

Description	This query returns the number of packets received. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:TRACe:STATistics:RX?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of packets received.
Example(s)	FETC:DATA:TEL:TRAC:STAT:RX?
See Also	FETCh:DATA:TELecom:TRACe:STATistics:TX?

:FETCh:DATA:TELEcom:TRACe:STATistics:TX?

Description	This query returns the number of packets sent. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELEcom:TRACe:STATistics:TX?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of packets sent.
Example(s)	FETC:DATA:TEL:TRAC:STAT:TX?
See Also	FETCh:DATA:TELEcom:TRACe:STATistics:RX?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP

Description	This command sets the ping IP destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the ping IP address of the destination.
Response Syntax	<Result>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP 230.170.18.19 SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP? Returns: 230.170.18.19
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam	
Description	This command sets the stream for ping IP destination address. At *RST condition, this value is set to OFF. Navigation Path: Functions > Ping & Trace Route > Destination IP Address > Use Stream
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Result>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR ON SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR? Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?

**:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination
:IP:USTReam?**

Description	This returns the status of the stream for ping IP destination address. At *RST condition, this value is set to OFF. Navigation Path: Functions > Ping & Trace Route > Destination IP Address > Use Stream
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the stream for ping IP destination address. 1, returns the stream as ON. 0, returns the stream as OFF.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR ON SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR? Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRes:DESTination:IP?	
Description	This query returns the ping IP destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRes:DESTination:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the ping IP destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP 230.170.18.19 SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP? Returns: 230.170.18.19
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRes:DESTination:IP SOURce:DATA:TELecom:ETHernet:STReam:ADDRes:DESTination:IP?

**:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:IPVersion:DE
STination**

Description	This command sets the destination ping IP6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:IPVersion:DESTination <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the ping destination IP address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST 0000:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST? Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELEcom:PING:CONFig:TOUT?

:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:IPVersion:DESTination?	
Description	This query returns the ping destination IP6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:IPVersion:DESTination?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the ping IPV6 destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST 0000:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST? Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELEcom:PING:CONFig:TOUT?

:SOURce:DATA:TELEcom:PING:CONFig:ADDRes:IPVersion:SOURce?

Description	This query returns the ping IP6 destination address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ADDRes:IPVersion:SOURce?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the ping IPV6 source address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:SOUR? Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELEcom:PING:CONFig:CONTInuous

:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:SOURce:IP?	
Description	This query returns the ping IP destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Test > IPV4 > Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ADDRess:SOURce:IP?
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the ping IPV4 source address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:SOUR:IP?
See Also	SOURce:DATA:TELEcom:TRACe:CONFig:RUN?

:SOURce:DATA:TELEcom:PING:CONFig:ATTempts

Description	This command sets the number of attempts of ping requests. Choices are 1 to 100. At *RST condition, this value is set to 4. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ATTempts <wsp> <Attempts>
Parameter(s)	Attempts: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value for the number of attempts. MAXimum, sets the value for the number of attempts to maximum. MINimum, sets the value for the number of attempts to minimum.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:PING:CONF:ATT 100 SOUR:DATA:TEL:PING:CONF:ATT? Returns: 100
See Also	SOURce:DATA:TELEcom:PING:CONFig:CONTinuous

:SOURce:DATA:TELEcom:PING:CONFig:ATTempts?	
Description	This query returns the number of attempts of ping. Choices are 1 to 100. At *RST condition, this value is set to 4. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:ATTempts?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of attempts of ping is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of attempts of ping requests.
Example(s)	SOUR:DATA:TEL:PING:CONF:ATT 100 SOUR:DATA:TEL:PING:CONF:ATT? Returns: 100
See Also	SOURce:DATA:TELEcom:PING:CONFig:CONTInuous?

:SOURce:DATA:TELEcom:PING:CONFig:CONTInuous

Description	This command sets the Ping attempts to be made as continuous or Fixed (nAttempts). At *RST condition, this value is set to Continuous. Navigation Path: Functions > Ping & Trace Route > Ping (Attempts dropdown)
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:CONTInuous <wsp><Attempts>
Parameter(s)	Attempts: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the attempts. ON: Continuous OFF: Fixed (nAttempts)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:CONT ON SOUR:DATA:TEL:PING:CONF:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:TRACe:CONFig:RUN SOURce:DATA:TELEcom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:CONTInuous?	
Description	This query returns status of Ping attempts. At *RST condition, this value is set to Continuous. Navigation Path: Functions > Ping & Trace Route > Ping (Attempts dropdown)
Syntax	:SOURce:DATA:TELecom:PING:CONFig:CONTInuous?
Response Syntax	<Continuous>
Response(s)	Continuous: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the Ping attempts as continuous or Fixed (nAttempts). 1, returns the attempts as continuous. 0, returns the attempts as Fixed (nAttempts).
Example(s)	SOUR:DATA:TEL:PING:CONF:CONT ON SOUR:DATA:TEL:PING:CONF:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELeom:PING:CONFig:DELaY

Description	This command allows you to enter the delay between each attempt (PING). Choices are 100 to 10000 ms. At *RST condition, this value is set to 1000 ms. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELeom:PING:CONFig:DELaY <wsp><Delay>
Parameter(s)	Delay: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the ping delay value. MAXimum, ping delay value is set to its maximum. MINimum, ping delay value is set to its minimum. Choices are 100 to 10000 ms.
Response Syntax	<Continous>
Example(s)	SOUR:DATA:TEL:PING:CONF:DEL 2000 SOUR:DATA:TEL:PING:CONF:DEL? Returns: 2000
See Also	SOURce:DATA:TELeom:PING:CONFig:DSIZe SOURce:DATA:TELeom:PING:CONFig:DSIZe?

:SOURce:DATA:TELecom:PING:CONFig:DELaY?	
Description	This query returns the delay between each attempt (PING). Choices are 100 to 10000 ms. At *RST condition, this value is set to 1000 ms. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:DELaY?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current delay between each attempt (PING) is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the delay value between each attempt in the PING request.
Example(s)	SOUR:DATA:TEL:PING:CONF:DEL 2000 SOUR:DATA:TEL:PING:CONF:DEL? Returns: 2000
See Also	SOURce:DATA:TELecom:PING:CONFig:DSIZe SOURce:DATA:TELecom:PING:CONFig:DSIZe?

:SOURce:DATA:TELEcom:PING:CONFig:DSIZE

Description	This command allows you to enter the data size. Choices are 0 to 1472 Bytes. At *RST condition, this value is set to 32 bytes. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:DSIZe <wsp><Dsize>
Parameter(s)	Dsize: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the ping frame size value. MAXimum, ping frame size value is set to its maximum. MINimum,ping frame size value is set to its minimum. Choices are 0 to 1472 Bytes
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:DSIZ 1460 SOUR:DATA:TEL:PING:CONF:DSIZ? Returns: 1460
See Also	SOURce:DATA:TELEcom:PING:CONFig:TTL SOURce:DATA:TELEcom:PING:CONFig:TTL?

:SOURce:DATA:TELeom:PING:CONFig:DSIZe?	
Description	This query returns the data size. Choices are 0 to 1472 Bytes. At *RST condition, this value is set to 32 bytes. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELeom:PING:CONFig:DSIZe?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current data size is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the data size value.
Example(s)	SOUR:DATA:TEL:PING:CONF:DSIZ 1460 SOUR:DATA:TEL:PING:CONF:DSIZ? Returns: 1460
See Also	SOURce:DATA:TELeom:PING:CONFig:TTL SOURce:DATA:TELeom:PING:CONFig:TTL?

:SOURce:DATA:TELecom:PING:CONFig:FLABel

Description	This command sets the Flow Label Value At *RST condition, this value is set to 0. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Flow Label
Syntax	:SOURce:DATA:TELecom:PING:CONFig:FLABel <wsp><Value>
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Flow Label Value. MAXimum, Flow Label value is set to its maximum. MINimum, Flow Label value is set to its minimum. Choices are 0 to 1048575.
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:PING:CONFig:FLABel 565 SOURce:DATA:TELecom:PING:CONFig:FLABel? Returns: 565
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELeom:PING:CONFig:FLABel?	
Description	This query returns the Flow Label value for IPV6 At *RST condition, this value is set to 0 Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Flow Label
Syntax	:SOURce:DATA:TELeom:PING:CONFig:FLABel?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Flow Label value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Flow label value
Example(s)	SOURce:DATA:TELeom:PING:CONFig:FLABel 565 SOURce:DATA:TELeom:PING:CONFig:FLABel? Returns: 565
See Also	SOURce:DATA:TELeom:TRACe:CONFig:RUN SOURce:DATA:TELeom:TRACe:CONFig:RUN?

:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex

Description	This command selects either the interface or a stream as the source IP address. Navigation Path: Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex <wsp> <IP address index>
Parameter(s)	IP address index: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. 0: Selects the Interface IP as source IP 1 to 16: Selects the corresponding stream IP address.
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex 1 SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:IP SOURce:DATA:TELEcom:ETHernet:STReam:ADDReSS:DESTination:IP?

:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex?	
Description	This query returns the index of the selected Source IP address. Navigation Path: Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex?
Response Syntax	<IP address index>
Response(s)	IP address index: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the index of the selected source IP address.
Example(s)	SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex 1 SOURce:DATA:TELEcom:PING:CONFig:STReam:INDex? Returns: 1
See Also	:SOURce:DATA:TELEcom:ETHernet:PORT:ADDRes:IP? :SOURce:DATA:TELEcom:ETHernet:NETWork:LOCal:IPVersion:ADDRes? :SOURce:DATA:TELEcom:ETHernet:STReam:ADDRes:SOURce:IP? :SENSe:DATA:TELEcom:ETHernet:STReam:DESTination:IPVersion?

:SOURce:DATA:TELecom:PING:CONFig:TOS

Description	This command allows you to enter the type of service. At *RST condition, this value is set to 0x00. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOS <wsp><TOS>
Parameter(s)	TOS: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Ping TOS/DS value. Choices are 00 to FF.
Response Syntax	<IP address index>
Example(s)	SOUR:DATA:TEL:PING:CONF:TOS #H00 SOUR:DATA:TEL:PING:CONF:TOS? Returns: 0
See Also	SOURce:DATA:TELecom:PING:CONFig:HCOunt

:SOURce:DATA:TELecom:PING:CONFig:TOS?	
Description	This query returns the type of service. At *RST condition, this value is set to 0x00. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOS?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the type of service value.
Example(s)	SOUR:DATA:TEL:PING:CONF:TOS #H00 SOUR:DATA:TEL:PING:CONF:TOS? Returns: 0
See Also	SOURce:DATA:TELecom:PING:CONFig:HCOunt?

:SOURce:DATA:TELecom:PING:CONFig:TOUT

Description	This command allows you to enter the maximum time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOUT <wsp><TOUT>
Parameter(s)	TOUT: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the ping time out value. MAXimum, the ping time out value is set to its maximum. MINimum, the ping time out value is set to its minimum. Choices are 200 ms to 10000 ms.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:TOUT 10000 SOUR:DATA:TEL:PING:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:DELaY SOURce:DATA:TELecom:PING:CONFig:DELaY?

:SOURce:DATA:TELecom:PING:CONFig:TOUT?	
Description	This query returns the time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOUT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current time allowed between an ICMP echo and response is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the time allowed between an ICMP echo and response.
Example(s)	SOUR:DATA:TEL:PING:CONF:TOUT 10000 SOUR:DATA:TEL:PING:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:DELaY SOURce:DATA:TELecom:PING:CONFig:DELaY?

:SOURce:DATA:TELeom:PING:CONFig:TTL

Description	This Command sets number of hops the packet can go through. At *RST condition, this value is set to 128. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELeom:PING:CONFig:TTL <wsp> <Ttl>
Parameter(s)	Ttl: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the ping ttl value. MAXimum, ping ttl value is set to its maximum. MINimum, ping ttl value is set to its minimum. Choices are 1 to 255.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:TTL 255 SOUR:DATA:TEL:PING:CONF:TTL? Returns: 255
See Also	SOURce:DATA:TELeom:PING:CONFig:TOS SOURce:DATA:TELeom:PING:CONFig:TOS?

:SOURce:DATA:TELEcom:PING:CONFig:TTL?	
Description	This query returns the maximum number of hops the packet can go through. At *RST condition, this value is set to 128. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELEcom:PING:CONFig:TTL?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current number of hops the packet can go through is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of hops the packet can go through.
Example(s)	SOUR:DATA:TEL:PING:CONF:TTL 255 SOUR:DATA:TEL:PING:CONF:TTL? Returns: 255
See Also	SOURce:DATA:TELEcom:PING:CONFig:TOS SOURce:DATA:TELEcom:PING:CONFig:TOS?

:SOURce:DATA:TELeom:PING:SEtUp:RUN

Description	This command allows you to run the Ping command. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELeom:PING:SEtUp:RUN <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:SET:RUN ON SOUR:DATA:TEL:PING:SET:RUN? Returns: 1
See Also	SOURce:DATA:TELeom:PING:CONFig:TOUT 10000

:SOURce:DATA:TELEcom:PING:SETup:RUN?	
Description	This query returns the status of the Ping command. This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELEcom:PING:SETup:RUN?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Ping command. 0, returns the status of the Ping command as OFF. 1, returns the status of the Ping command as ON.
Example(s)	SOUR:DATA:TEL:PING:SET:RUN ON SOUR:DATA:TEL:PING:SET:RUN? Returns: 1
See Also	SOURce:DATA:TELEcom:PING:CONFig:TOUT?

:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt

Description	This command allows you to enter the number of network device packets. At *RST condition, this value is set to 128. Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt <wsp><HOP>
Parameter(s)	HOP: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Trace maximum hop count. MAXimum, the hop count value is set to its maximum. MINimum, the hop count. value is set to its minimum. Choices are from 1 to 255
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:HCO 88 SOUR:DATA:TEL:TRAC:CONF:HCO? Returns: 88
See Also	SOURce:DATA:TELEcom:PING:CONFig:TTL SOURce:DATA:TELEcom:PING:CONFig:TTL?

:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt?	
Description	This query returns the maximum network device packets. Choices are from 1 to 255. At *RST condition, this value is set to 128. Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELEcom:TRACe:CONFig:HCOunt?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current network device packets value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the trace maximum hop count.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:HCO 88 SOUR:DATA:TEL:TRAC:CONF:HCO? Returns: 88
See Also	SOURce:DATA:TELEcom:PING:CONFig:TTL SOURce:DATA:TELEcom:PING:CONFig:TTL?

:SOURce:DATA:TELEcom:TRACe:CONFig:RUN

Description	This command allows you to run the Trace command. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELEcom:TRACe:CONFig:RUN <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:RUN ON SOUR:DATA:TEL:TRAC:CONF:RUN? Returns: 1
See Also	SOURce:DATA:TELEcom:PING:SEtup:RUN SOURce:DATA:TELEcom:PING:SEtup:RUN?

:SOURce:DATA:TELeom:TRACe:CONFig:RUN?	
Description	This query returns the status of the Trace command. This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELeom:TRACe:CONFig:RUN?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Trace command. 0, returns the status of the Trace command as OFF. 1, returns the status of the Trace command as ON.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:RUN ON SOUR:DATA:TEL:TRAC:CONF:RUN? Returns: 1
See Also	SOURce:DATA:TELeom:PING:SEtUp:RUN SOURce:DATA:TELeom:PING:SEtUp:RUN?

:SOURce:DATA:TELecom:TRACe:CONFig:TOUT

Description	This command allows you to enter the maximum time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:TOUT <wsp><TOUT>
Parameter(s)	TOUT: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Trace time out value. MAXimum, the trace time out value is set to its maximum. MINimum, the trace time out value is set to its minimum. Choices are 200 ms to 10000 ms.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:TOUT 10000 SOUR:DATA:TEL:TRAC:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT SOURce:DATA:TELecom:PING:CONFig:TOUT?

:SOURce:DATA:TELecom:TRACe:CONFig:TOUT?	
Description	This query returns the time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Trace
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:TOUT?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current time allowed between an ICMP echo and response is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the time out value.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:TOUT 10000 SOUR:DATA:TEL:TRAC:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT SOURce:DATA:TELecom:PING:CONFig:TOUT?

Filters

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?

Description	This command sets the frame bandwidth in megabit per second. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Ethernet BW (Mbit/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth? <wsp> <Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame bandwidth.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:BAND? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:RATE?

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNT?	
Description	This query returns the number of frames matching the configured filter's criteria. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNT? <wsp><Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of valid and invalid frames received.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:COUN? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:RATE?

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE?

Description	This query returns the frame rate in frames per second. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Frame Rate
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE? <wsp><Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame rate.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:RATE? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:UTILization?

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization?	
Description	This query returns the frame utilization in percentage. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Line Utilization
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization? <wsp><Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame utilization.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:UTIL? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:RATE?

:SENSe:DATA:TELEcom:ETHernet:FILTer:STATistics?

Description	This query returns the Filter error statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Error Count
Syntax	:SENSe:DATA:TELEcom:ETHernet:FILTer:STATistics? <wsp><Filterno>, <Error>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of MAC (Media Access Control) error. FCS: Frame Check Sequence IPchecksum: IP checksum. JABber: Jabber/Giant RUNt: Runt TCPchecksum: Tcpchecksum UDPchecksum: Udpchecksum UNDERSIZED: Undersized OVERSIZED: Oversized
Response Syntax	<Errors>
Response(s)	Errors: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of Filter errors.
Example(s)	SENS:DATA:TEL:ETH:FILT:STAT? 1, FCS
See Also	SENSe:DATA:TELEcom:ETHernet:FILTer:FRAMing:UTILization?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer	
Description	This command enables/disables the corresponding filter for a specific Filter Number. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Filters > Enable
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer <wsp><Filterno>, <SET>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. SET: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the corresponding filter for a specific filter number. ON: Enabled OFF: Disabled
Response Syntax	<Errors>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT 1, ON SENS:DATA:TEL:ETH:STR:FILT? 1 Returns: 1
See Also	SENSe:DATA:TELEcom:CAPTure:TSource:DESTinaton:PORT?

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CL
OSe**

Description	This command selects the close parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig >)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe <wsp><Filterno> , <Criterion> , <Set>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the close parenthesis. ON, enables the close parenthesis. OFF, disables the close parenthesis.
Response Syntax	<Errors>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CL OSe?	
Description	This query returns the selected close parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig >)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of close parenthesis. 0, returns the status of close parenthesis as OFF. 1, returns the status of close parenthesis as ON.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OP
EN**

Description	This command selects the open parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > (
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN <wsp><Filterno>,<Criterion>,<Set>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the open parenthesis. ON, enables the open parenthesis. OFF, disables the open parenthesis.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OP EN?	
Description	This query returns the selected open parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > (
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN? <wsp> <Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of open parenthesis. 0, returns the status of open parenthesis as ON. 1, returns the status of open parenthesis as OFF.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP

Description	This command sets the Destination Internet Protocol (IP) address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Destination IP > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP <wsp> <Filterno> , <Criterion> , <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Destination IP address.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPD SENS:DATA:TEL:ETH:STR:FILT:DEST:IP 2,1, 0.1.1.1 SENS:DATA:TEL:ETH:STR:FILT:DEST:IP? 2,1 Returns: 0.1.1.1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP?	
Description	This query returns the Destination Internet Protocol (IP) address, if filter the type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Destination IP > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns destination IP address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPD SENS:DATA:TEL:ETH:STR:FILT:DEST:IP 2,1, 0.1.1.1 SENS:DATA:TEL:ETH:STR:FILT:DEST:IP? 2,1 Returns: 0.1.1.1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion

Description	This command sets the Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVD SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV 1, 1, 0000:0000:0000:0000:0000:0000:0000:0000. SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV? 1, 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES:IPV?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion?	
Description	This query returns the Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IPVersion? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPV6 SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV 1, 1, 0000:0000:0000:0000:0000:0000:0000:0000. SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV? 1, 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES:IPV

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC

Description	This command sets the Destination Media Access Control (MAC) address, if the the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type MAC Destination Address > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Destination MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DMAC SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC 2,1, 00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC? 2,1 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC?	
Description	This query returns the Destination Media Access Control (MAC) address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type MAC Destination Address > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns destination MAC address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DMAC SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC 2,1, 00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC? 2,1 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP

Description	This command sets the Transmission Control Protocol (TCP) Destination Port, if filter type is TCP Destination Port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP <wsp><Filterno>,<Criterion>,<port>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Destination TCP port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TDESTINATION SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP 2,1, 50 SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP? 2,1 Returns: 50
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP?	
Description	This query returns the Transmission Control Protocol (TCP) Destination Port, if filter type is TCP Destination Port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP? <wsp> <Filterno> , <Criterion> ,[<Port>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP Destination Port for a specific Filter Number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns destination TCP port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TDESTINATION SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP 2,1, 50 SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP? 2,1 Returns: 50
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP	
Description	This command sets the User Datagram Protocol (UDP) Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type UDP Destination Port > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP <wsp><Filterno>, <Criterion>, <Port>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Destination UDP port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, UDES SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP 2,1, 50 SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP? 2,1 Returns: 50
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC

:SENSe:DATA:TELecom:ETHerNet:STReam:FiLTeR:DESTination:UDP?

Description	This query returns the User Datagram Protocol (UDP) Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type UDP Destination Port > Value
Syntax	:SENSe:DATA:TELecom:ETHerNet:STReam:FiLTeR:DESTination:UDP? <wsp> <Filterno> , <Criterion> , [<Port>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current UDP Destination Port for a specific Filter Number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

:SENSe:DATA:TELecom:ETHeRnet:STReam:FILTer:DESTination:UDP?

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns destination UDP port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, UDES SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP 2,1, 50 SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP? 2,1 Returns: 50
See Also	SENSe:DATA:TELecom:ETHeRnet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHeRnet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELecom:ETHeRnet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices

Description	This command sets the Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Diff Serv > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices <wsp><Filterno>, <Criterion>, <Dservices>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DSER SENS:DATA:TEL:ETH:STR:FILT:DSER 2,1, 55 SENS:DATA:TEL:ETH:STR:FILT:DSER? 2,1 Returns: 55
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTER:DSERVICES:IPVersion	
Description	This command sets the value of Differentiated Services, if filter type is Differentiated Services for a specific Filter No. At *RST condition, this value is set to #B000000. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTER:DSERVICES:IPVersion <wsp><Filterno>,<Criterion>,<Dservices>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the value of differentiated services.
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPV4 SENS:DATA:TEL:ETH:STR:FILT:DSER:IPV 2,1, #B000001 SENS:DATA:TEL:ETH:STR:FILT:DSER:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTER:SOURce:IPV? SENSe:DATA:TELEcom:ETHernet:STReam:FILTER:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPVersion?	
Description	This query returns the value of Differentiated Services, if filter type is Differentiated Services for a specific Filter No. At *RST condition, this value is set to #B000000. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPVersion? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Dservices>
Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of differentiated services.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVD SENS:DATA:TEL:ETH:STR:FILT:DSER:IPV 2,1, #B000001 SENS:DATA:TEL:ETH:STR:FILT:DSER:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?	
Description	This query returns the Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Diff Serv > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices? <wsp><Filterno>,<Criterion>,[<Dservices>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Diff Serv for a specific Filter Number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dservices>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSErviceS?

Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of differentiated services.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DSER SENS:DATA:TEL:ETH:STR:FILT:DSER 2,1, 50 SENS:DATA:TEL:ETH:STR:FILT:DSER? 2,1 Returns: 50
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PREcedence SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PREcedence?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ENABled:TIME?	
Description	This query returns the time during which the filter is enabled. At *RST condition, this value is set to '--'. Navigation Path: Functions > Filters & Packet Capture > Filters > Enabled Time
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ENABled:TIME? <wsp> <Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Time>
Response(s)	Time: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the time during which the filter is enabled.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:ENAB:TIME? 1
See Also	SENSe:DATA:TELEcom:ETHernet:FILTer:FRAMing:RATE?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype

Description	This command sets the Ether Type value, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 2048. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Ether Type > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype <wsp><Filterno>, <Criterion>, <Type>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Type: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the filter ether type value.
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, ETH SENS:DATA:TEL:ETH:STR:FILT:ETH 2,1, #H007 SENS:DATA:TEL:ETH:STR:FILT:ETH? 2,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?	
Description	This query returns the Ether Type value, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 2048. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Ether Type > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Ether Type filter value.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, ETH SENS:DATA:TEL:ETH:STR:FILT:ETH 2,1, #H007 SENS:DATA:TEL:ETH:STR:FILT:ETH? 2,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

**:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:FLABel:IPVer
sion**

Description	This command sets the IPv6 Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:FLABel:IPVersion <wsp> <Filterno> , <Criterion> , <IPv6 Flow Label>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. IPv6 Flow Label: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Flow Label. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVF SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV? 1, 1 Returns: 20
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TCLass:IPV?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLABel:IPVer sion?	
Description	This query returns the IPv6 Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLABel:IPVersion? <wsp><Filterno>, <Criterion>,[< IPv6 Flow Label>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. IPv6 Flow Label: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current IPV6 Flow Label for a specific Filter Number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Flabel>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPVer
sion?**

Response(s)	Flabel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Flow Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVF SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV? 1, 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TClass:IPV

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat	
Description	This command sets the Frame Format, if filter type is Frame Format for a specific Filter No. At *RST condition, this value is set to ETHERNETII. Navigation Path: Functions- > Filters- > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat <wsp><Filterno>, <Criterion>, <Format>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Format: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame format. ETHERNETII, sets the Frame fortmat type to Ethernet II. IEEE8023LLCSNAP, sets the Frame fortmat type to 802.3 SNAP.
Response Syntax	<Flabel>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, FFORMAT SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM 2,1, ETHERNETII SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM? 2,1 Returns: ETHERNETII
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE 1, 1, DMAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE? 1, 1

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat?	
Description	This query returns the Frame Format, if filter type is Frame Format for a specific Filter No. At *RST condition, this value is set to ETHERNETII. Navigation Path: Functions- > Filters - > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FRAMe:FORMat? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns destination frame format. ETHERNETII, Ethernet II is current frame format. IEEE8023LlcSnap, 802.3 SNAP is current frame format.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, FFORMAT SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM 2,1, ETHERNETII SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM? 2,1 Returns: ETHERNETII
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE 1, 1, DMAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE? 1, 1

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol	
Description	This command sets the IP Protocol value, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type IP Protocol > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol <wsp><Filterno>, <Criterion>, <Ipprotocol>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the filter IP protocol value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,IPPR SENS:DATA:TEL:ETH:STR:FILT:IPPR 1, 1, 17 SENS:DATA:TEL:ETH:STR:FILT:IPPR? 1, 1 Returns: 17
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

Description	This query returns the IP Protocol value, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type IP Protocol > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol? <wsp><Filterno>, <Criterion>,[<Ipprotocol>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Gets the filter IP protocol value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Ipprotocol>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

Response(s)	lpprotocol: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IP Protocol.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,IPPR SENS:DATA:TEL:ETH:STR:FILT:IPPR 1, 1, 17 SENS:DATA:TEL:ETH:STR:FILT:IPPR? 1, 1 Returns: 17
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP

Description	This command sets the Mask Destination IP address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type IP Destination Address > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP <wsp> <Filterno>, <Criterion>, <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Destination IP address.
Response Syntax	<Ipprotocol>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPD SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP 2,1, 255.255.255.255 SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP? 2,1 Returns: 255.255.255.255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP?	
Description	This query returns the Mask Destination IP address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type IP Destination Address > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP? <wsp> <Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Destination IP address.
Example(s)	SENSe:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPD SENSe:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP 2,1, 255.255.255.255 SENSe:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP? 2,1 Returns: 255.255.255.255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion

Description	This command sets the Mask Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion <wsp><Filterno>, <Criterion>, <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Sets the Mask Destination IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVDESTINATION SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV 1, 1, FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV? 1, 1 Returns: FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IPV? SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion?	
Description	This query returns the Mask Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Mask Destination IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVDESTINATION SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV 1, 1, FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV? 1, 1 Returns: FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC

Description	This command sets the Mask Destination MAC address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Destination MAC Address > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC <wsp> <Filterno>, <Criterion>, <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Destination MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DMAC SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC 2,1, FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC? 2,1 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?	
Description	This query returns the Mask Destination MAC address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Destination MAC Address > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Destination MAC address.
Example(s)	SENSe:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DMAC SENSe:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC 2,1, FF:FF:FF:FF:FF:FF SENSe:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC? 2,1 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTi
nation:TCP**

Description	This command sets the Mask TCP Destination Port, if filter type is TCP Destination Port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP <wsp><Filterno>,<Criterion>,<TCP>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. TCP: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Destination TCP port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TDESTINATION SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:TCP 2,1, 4343 SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:TCP? 2,1 Returns: 4343
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

:SENSe:DATA:TELecom:ETHernet:STReam:FILTER:MASK:DESTination:TCP?	
Description	This query returns the Mask TCP Destination Port, if filter type is TCP Destination Port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTER:MASK:DESTination:TCP? <wsp><Filterno>,<Criterion>,[<TCP>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. TCP: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Mask Destination TCP port address. This parameter is optional. If no token is specified, the currentMask Destination TCP port address value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

**:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:DESTi
nation:TCP?**

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Destination TCP Port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TDESTINATION SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:TCP 2,1, 4343 SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:TCP? 2,1 Returns: 4343
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP	
Description	This command sets the Mask UDP Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type UDP Destination Port > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Destination UDP port address.
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1, UDES SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP 1, 1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP? 1, 1 Returns: 255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTInation:UDP?

Description	This query returns the Mask UDP Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type UDP Destination Port > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTInation:UDP? <wsp> <Filterno> , <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Destination UDP Port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1, UDES SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP 1, 1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP? 1, 1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTInation:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTInation:UDP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices	
Description	This command sets the Mask Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 63. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Diff Serv > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices <wsp> <Filterno> , <Criterion> , <Dservices>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DSER SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER 2,1, 21 SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER? 2,1 Returns: 21
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence?

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSER
vices:IPVersion**

Description	This command sets the Mask Differentiated Services, if filter type is Differentiated Services for a specific Filter No. At *RST condition, this value is set to 63. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices:IPVersion <wsp><Filterno>, <Criterion>, <Differentiated Services>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Differentiated Services: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Mask Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVDiffserv SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER:IPV 2,1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER:IPV? 2,1 Returns: 60
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices:IPV?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSErvice:IPVersion?	
Description	This query returns the Mask Differentiated Services, if filter type is Differentiated Services for a specific Filter No. At *RST condition, this value is set to 63. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSErvice:IPVersion? <wsp><Filterno>, <Criterion>,[<Differentiated Services>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Differentiated Services: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dservices>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSER
vices:IPVersion?**

Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of differentiated services.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVDiffserv SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER:IPV 2,1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER:IPV? 2,1 Returns: 60
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DServices:IPV

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSErviceS?	
Description	This query returns the Mask Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 63. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter Type Diff Serv > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSErviceS? <wsp> <Filterno> , <Criterion> ,[<Dservices>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Mask Differentiated Services. This parameter is optional. If no token is specified, the current Mask Differentiated Services value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dservices>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSER
vices?**

Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Differentiated Services.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, DSER SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER 2,1, 20 SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER? 2,1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype	
Description	This command sets Mask Ether Type, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype <wsp> <Filterno>, <Criterion>, <Type>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Type: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Mask filter ether type value.
Response Syntax	<Dservices>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1, ETH SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH 1, 1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH? 1, 1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

Description	This query returns the Mask Ether Type, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Mask EtherType.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1, ETH SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH 1, 1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH? 1, 1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion	
Description	This command sets the IPv6 Mask Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No. At *RST condition, this value is set to 1048575 Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion <wsp><Filterno>,<Criterion>,<Flow Label>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flow Label: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Mask Flow Label. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVFLABEL SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV 1, 1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV? 1, 1 Returns: 60
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:FLABel:IPV? SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABe
l:IPVersion?**

Description	This query returns the IPv6 Mask Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion? <wsp><Filterno>,<Criterion>,[<Flow Label>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flow Label: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFAult: Default value
Response Syntax	<Flabel>

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion?

Response(s)	Flabel: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Mask Flow Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVFLABEL SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV 1, 1, 30 SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV? 1, 1 Returns: 30
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:FLABel:IPV SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol

Description	This command sets Mask IP Protocol, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol <wsp> <Filterno>, <Criterion>, <Ipprotocol>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Mask IP protocol value.
Response Syntax	<Flabel>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPPR SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR 2,1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR? 2,1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:IPPRotocol?	
Description	This query returns the Mask IP Protocol, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:IPPRotocol? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Ipprotocol>
Response(s)	Ipprotocol: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Mask IP Protocol.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPPR SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR 2,1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR? 2,1 Returns: 255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS [1..n]

Description	This command sets the Multi-Protocol Label switching Cost of Service MPLS COS value of IPv6. At *RST condition, this value is set to 1. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS[1..n] <wsp><Filterno>, <Criterion>, <Tclass>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tclass: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS COS value of IPv6 value. Range: 1-7
Response Syntax	<Ipprotocol>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MCOS1 SENS:DATA:TEL:ETH:STR:FILT:MASK:MCOS1 1, 1, 6 SENS:DATA:TEL:ETH:STR:FILT:MASK:MCOS1? 1, 1 Returns: 6
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLabel? SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]?	
Description	This query returns the Multi-Protocol Label switching Cost of Service MPLS COS value of IPv6. At *RST condition, this value is set to 1. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns MPLS COS value.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MCOS1 SENS:DATA:TEL:ETH:STR:FILT:MASK:MCOS1 1, 1, 6 SENS:DATA:TEL:ETH:STR:FILT:MASK:MCOS1? 1, 1 Returns: 6
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]

Description	This command sets the Multi-Protocol Label switching (MPLS) Mask Next Header, if Filter Type is MPLS Next Header for a specific Filter No. At *RST condition, this value is set to 1. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n] <wsp> <Filterno>, <Criterion>, <Nheader>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Nheader: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS Mask Next Header. Range:1-1048575
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MLABEL1 SENS:DATA:TEL:ETH:STR:FILT:MASK:MLAB1 1, 1, 56 SENS:DATA:TEL:ETH:STR:FILT:MASK:MLAB1? 1, 1 Returns: 56
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS1? SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]?	
Description	This query returns the Multi-Protocol Label switching (MPLS) Mask Next Header, if Filter Type is MPLS Next Header for a specific Filter No. At *RST condition, this value is set to 1. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Nheader>
Response(s)	Nheader: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS Mask Next Header.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MLABEL1 SENS:DATA:TEL:ETH:STR:FILT:MASK:MLAB1 1, 1, 56 SENS:DATA:TEL:ETH:STR:FILT:MASK:MLAB1? 1, 1 Returns: 56
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS1 SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion

Description	This command sets the IPv6 Mask Next Header, if Filter Type is IPv6 Next Header for a specific Filter No. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion <wsp><Filterno>,<Criterion>,<Nheader>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Nheader: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Mask Next Header. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Nheader>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVNheader SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV 1, 1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV? 1, 1 Returns: 60
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:NHEader:IPV? SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion?	
Description	This query returns the IPv6 Mask Next Header, if Filter Type is IPv6 Next Header for a specific Filter No. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion? <wsp><Filterno>, <Criterion>,[<IPv6 Next Header>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. IPv6 Next Header: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Nheader>

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion?

Response(s)	Nheader: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Mask Next Header.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVNheader SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV 1, 1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV? 1, 1 Returns: 60
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:NHEader:IPV SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence	
Description	This command sets the Mask Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence <wsp> <Filterno> , <Criterion> , <Precedence>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Nheader>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, PREC SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC 2,1, 5 SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC? 2,1 Returns: 5
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERVICES SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERVICES?

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion

Description	This command sets the value of Mask Precedence, if filter type is Precedence for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion <wsp><Filterno>, <Criterion>, <Precedence>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Mask Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Nheader>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVPRECEDENCE SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC:IPV 2,1, 5 SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC:IPV? 2,1 Returns: 5
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:PRECedence:IPV?

:SENSe:DATA:TELeom:ETHernet:STReam:FILTER:MASK:PRECedence:IPVersion?	
Description	This query returns the value of Mask Precedence, if filter type is Precedence for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTER:MASK:PRECedence:IPVersion? <wsp><Filterno>, <Criterion>,[<Precedence>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PREC
edence:IPVersion?**

Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of Mask Precedence.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVPRECEDENCE SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC:IPV 2,1, 5 SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC:IPV? 2,1 Returns: 5
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence:IPV

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence?	
Description	This query returns the Mask Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters & Packet Capture > Filter CONFig > Filter type Precedence > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:PRECedence? <wsp><Filterno>,<Criterion>,[<Precedence>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Mask Precedence. This parameter is optional. If no token is specified, the current Mask Precedence value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PREC
edence?**

Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the masked Precedence.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, PREC SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC 2,1, 6 SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC? 2,1 Returns: 6
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DServices SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DServices?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IP	
Description	This command sets the Mask Source IP Address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IP <wsp> <Filterno> , <Criterion> , <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Source IP address.
Response Syntax	<Precedence>
Example(s)	SENSe:DATA:TEL:ETH:STR:FiLT:TYPE 2,1, IPS SENSe:DATA:TEL:ETH:STR:FiLT:MASt:SOUR:IP 2,1, 255.255.255.255 SENSe:DATA:TEL:ETH:STR:FiLT:MASt:SOUR:IP? 2,1 Returns: 255.255.255.255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:MAC SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:MAC?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IP?

Description	This query returns the Mask Source IP Address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IP? <wsp><Filterno> , <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Source IP address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPS SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:IP 2,1, 255.255.255.255 SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:IP? 2,1 Returns: 255.255.255.255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:MAC SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:MAC?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IPVersion	
Description	This command sets the Mask Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IPVersion <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Sets the Mask Source IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVSource SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:IPV 1, 1, FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:IPV? 1, 1 Returns: FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:IPV? SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion?

Description	This query returns the Mask Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Mask Source IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVSource SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV 1, 1, FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV? 1, 1 Returns: FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC	
Description	This command sets the Mask Source MAC Address, if the filter type is MAC Address Source for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC <wsp><Filterno>, <Criterion>, <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Source MAC address.
Response Syntax	<Address>
Example(s)	SENSe:DATA:TEL:ETH:STR:FILT:TYPE 2,1, SMAC SENSe:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC 2,1, FF:FF:FF:FF:FF:FF SENSe:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC? 2,1 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

Description	This query returns the Mask Source MAC Address, if the filter type is MAC Address Source for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC? <wsp> <Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Source MAC address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, SMAC SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC 2,1, FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC? 2,1 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP	
Description	This command sets the Mask TCP Source Port, if filter type is TCP Source Port for a specific Filter No. At *RST condition, this value is set to 65535. Navigation Path: Functions- > Filters - > Filters CONFig - > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Source TCP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TSOURCE SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP 2,1, 55555 SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP? 2,1 Returns: 55555
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:TCP?

Description	This query returns the Mask TCP Source Port, if filter type is TCP Source Port for a specific Filter No. At *RST condition, this value is set to 65535. Navigation Path: Functions- > Filters & Capture - > Filters CONFig - > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:TCP? <wsp><Filterno>,<Criterion>,[<Address>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Mask Source TCP Port address. This parameter is optional. If no token is specified, the current Mask Source TCP Port address value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOUR
ce:TCP?**

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Source TCP Port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TSOURCE SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP 2,1, 6666 SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP? 2,1 Returns: 6666
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRiority?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:UDP

Description	This command sets the Mask UDP Source Port, if the filter type is UDP Source Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:UDP <wsp> <Filterno> , <Criterion> , <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Source UDP Port address.
Response Syntax	<port>
Example(s)	SENSe:DATA:TEL:ETH:STR:FiLT:TYPE 2,1, USO SENSe:DATA:TEL:ETH:STR:FiLT:MASt:SOUR:UDP 2,1, #HFF SENSe:DATA:TEL:ETH:STR:FiLT:MASt:SOUR:UDP? 2,1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:DEStination:UDP

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:UDP?	
Description	The query returns the Mask UDP Source Port, if the filter type is UDP Source Port for specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:SOURce:UDP? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Source UDP Port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, USO SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:UDP 2,1, #HFF SENS:DATA:TEL:ETH:STR:FILT:MASt:SOUR:UDP? 2,1 Returns: 255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:DEStination:UDP SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:DEStination:UDP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS

Description	This command sets the Mask TOS, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS <wsp><Filterno>, <Criterion>, <Tos>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Type of Service (TOS). MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TOS SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS 2,1, 60 SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS? 2,1 Returns: 60
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion	
Description	This command sets the Mask Traffic Class (TOS/DS) value of IPv6. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion <wsp> <Filterno>, <Criterion>, <Traffic Class>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Traffic Class: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Mask Traffic Class (TOS/DS) value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPV TOS SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS:IPV 2,1, 69 SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS:IPV? 2,1 Returns: 69
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TClass:IPV?

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion?

Description	This query returns the Mask Traffic Class (TOS/DS) value of IPv6. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters > Filter CONFig > MASK
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion? <wsp><Filterno>,<Criterion>,[<Traffic Class>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Traffic Class: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current label number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tclass>

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion?

Response(s)	Tclass: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of TClass.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPV TOS SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS:IPV 2,1, 69 SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS:IPV? 2,1 Returns: 69
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:TClass:IPV

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS?	
Description	This query returns the Mask TOS, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:TOS? <wsp><Filterno> , <Criterion>,[<Tos>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Mask Type of Service (TOS). This parameter is optional. If no token is specified, the current Mask Type of Service (TOS) value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tos>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Type of Service (TOS).
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TOS SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS 2,1, 90 SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS? 2,1 Returns: 90
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID

Description	This command sets the Mask VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 4095. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID <wsp><Filterno>,<Criterion>,<Vlan>,<Id>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Id: The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Identifier.
Response Syntax	<Tos>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, VLANid SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID 1, 1, 1, #HAB SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID? 1, 1, 1 Returns: 171
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID?	
Description	This query returns the Mask VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 4095. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID? <wsp><Filterno>,<Criterion>,<Vlan>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN.
Response Syntax	<Id>
Response(s)	Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of masked VLAN identifier.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, VLANid SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID 1, 1, 1, #HAB SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID? 1, 1, 1 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:MASt:VLAN:PRiority

Description	This command sets the Mask VLAN Priority, if the filter type is VLAN Priority for a specific Filter Number. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:MASt:VLAN:PRiority <wsp><Filterno>,<Criterion>,<Vlan>,<Priority>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Priority: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Priority. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRlority	
Response Syntax	<Id>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, VPRiority SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI 1, 1, 1, 3 SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI? 1, 1, 1 Returns: 3
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:VLAN:PRiority?

Description	This query returns the Mask VLAN Priority, if the filter type is VLAN Priority for a specific Filter Number. At *RST condition, this value is set to 111. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MASt:VLAN:PRiority? <wsp><Filterno>,<Criterion>,<Vlan>,[<Priority>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Priority: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current masked VLAN value is returned. MAXimum is used to retrieve the instrument's greatest supported masked VLAN value. MINimum is used to retrieve the instrument's smallest supported masked VLAN value. DEFAult: Default value
Response Syntax	<Priority>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRlority?

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of masked VLAN Priority.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, VPriority SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI 1, 1, 1, 3 SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI? 1, 1, 1 Returns: 3
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MCOS[1..n]	
Description	This command sets the Multi-Protocol Label switching Cost of Service (MPLS COS), if Filter Type is MPLS COS Label for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MCOS[1..n] <wsp><Filterno>, <Criterion>, <Flabel>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flabel: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS COS Label. Range:0-7
Response Syntax	<Priority>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MCOS1 SENS:DATA:TEL:ETH:STR:FILT:MCOS1 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:MCOS1? 1, 1 Returns: 20
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MCOS[1..n]?	
Description	This query returns the Multi-Protocol Label switching Cost of Service(MPLS COS) Label, if Filter Type is MPLS COS Label for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:MCOS[1..n]? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<FLABEL>
Response(s)	FLABEL: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS COS Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MCOS1 SENS:DATA:TEL:ETH:STR:FILT:MCOS1 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:MCOS1? 1, 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:DESTination:TCP SENSe:DATA:TELecom:ETHernet:STReam:FiLTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MLABel[1..n]

Description	This command sets the Multi-Protocol Label switching(MPLS), if Filter Type is MPLS Label for a specific Filter No. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MLABel[1..n] <wsp><Filterno>,<Criterion>,<Flabel>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flabel: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS Label. Range:0-1048575
Response Syntax	<FLABEL>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MLABEL1 SENS:DATA:TEL:ETH:STR:FILT:MLAB1 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:MLAB1? 1, 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MLABel[1..n]?	
Description	This query returns the Multi-Protocol Label switching(MPLS), if Filter Type is MPLS Label for a specific Filter No. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MLABel[1..n]? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<FLABEL>
Response(s)	FLABEL: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, MLABEL1 SENS:DATA:TEL:ETH:STR:FILT:MLAB1 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:MLAB1? 1, 1 Returns: 20
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP?

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV
ersion**

Description	This command sets the IPv6 Next Header, if Filter Type is IPv6 Next Header for a specific Filter No. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPVersion <wsp><Filterno>,<Criterion>,<Next Header>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 Next Header. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<FLABEL>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVN SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV? 1, 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV? SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV ersion?	
Description	This query returns the IPv6 Next Header, if Filter Type is IPv6 Next Header for a specific Filter No. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPVersion? <wsp><Filterno>,<Criterion>,[<Next Header>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current next header is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Nheader>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV
ersion?**

Response(s)	Nheader: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Next Header.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVN SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV 1, 1, 20 SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV? 1, 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator	
Description	This command selects the logical operator (AND or OR) between two operands when more than two operands are used. At *RST condition, this value is set to AND. Navigation Path: Functions > Filters & Packet Packet Capture > Filters > Filter CONFig > Oper.
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator <wsp><Filterno>, <Criterion>, <Operator>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Operator: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the logical operators. AND OR
Response Syntax	<Nheader>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:OPER 1, 1, AND SENS:DATA:TEL:ETH:STR:FILT:OPER? 1, 1 Returns: AND
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

Description	This command selects the Operator Not. When it is selected, add the logical negation (not equal) operator for the operand filter defined at its right. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Not
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT <wsp> <Filterno>, <Criterion>, <Set>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/Disables the NOT operator. ON: Enabled OFF: Disabled
Response Syntax	<Nheader>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?	
Description	This query returns the Operator Not. When selected, add the logical negation (not equal) operator for the operand filter defined at its right. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Not
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. This query returns the Operator Not. 0, returns the status of the logical operator as OFF. 1, returns the status of the logical operator as ON.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT 2,1, ON SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?	
Description	This query returns the logical operator (AND or OR) between two operands when more than two operands are used. At *RST condition, this value is set to AND. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Oper.
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Operator>
Response(s)	Operator: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the logical operators. AND, AND is selected as the logical operator. OR, OR is selected as the logical operator.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:OPER 2,1, AND SENS:DATA:TEL:ETH:STR:FILT:OPER? 2,1 Returns: AND
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PREcedence	
Description	This command sets the Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 000. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Precedence > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PREcedence <wsp> <Filterno>, <Criterion>, <Precedence>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Operator>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, PREC SENS:DATA:TEL:ETH:STR:FILT:PREC 2,1, 4 SENS:DATA:TEL:ETH:STR:FILT:PREC? 2,1 Returns: 4
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:PRECedence:IPVersion

Description	This command sets the value of Precedence, if filter type is Precedence for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:PRECedence:IPVersion <wsp><Filterno>,<Criterion>,<Precedence>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Precedence.
Response Syntax	<Operator>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVP SENS:DATA:TEL:ETH:STR:FILT:PREC:IPV 2,1, #B001 SENS:DATA:TEL:ETH:STR:FILT:PREC:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:FLABel:IPV? SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:TYPE

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPVersion?	
Description	This query returns the value of Precedence, if filter type is Precedence for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPVersion? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of precedence.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPV SENS:DATA:TEL:ETH:STR:FILT:PREC:IPV 2,1, #B001 SENS:DATA:TEL:ETH:STR:FILT:PREC:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FiLTER:PREcedence?

Description	This query returns the value of Precedence, if filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Precedence > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FiLTER:PREcedence? <wsp> <Filterno> , <Criterion> ,[<Precedence>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Precedence. This parameter is optional. If no token is specified, the current precedence value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of precedence.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, PREC SENS:DATA:TEL:ETH:STR:FILT:PREC 2,1, 2 SENS:DATA:TEL:ETH:STR:FILT:PREC? 2,1 Returns: 2
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERVICES SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERVICES?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP

Description	This command sets the source IP address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters > Filters & Packet Capture > Filter CONFig > Filter type IP Source Address > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP <wsp> <Filterno>, <Criterion>, <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Source IP address.
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPS SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP 2,1, 0.1.1.1 SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP? 2,1 Returns: 0.1.1.1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP?	
Description	This query returns the Source IP address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filters & Packet Capture > Filter type IP Address > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns source IP address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPS SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP 2,1, 0.1.1.1 SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP? 2,1 Returns: 0.1.1.1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC?

**:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPVe
rsion**

Description	This command sets the Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > > Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IPVersion <wsp> <Filterno> , <Criterion> , <Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Sets the Source IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVS SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV 1, 1, 0000:0000:0000:0000:0000:0000:0000:0000. SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV? 1, 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:PRECedence:IPV?

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:SOURce:IPVe rsion?	
Description	This query returns the Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:SOURce:IPVersion? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Source IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, IPVS SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV 1, 1, 0000:0000:0000:0000:0000:0000:0000:0000. SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV? 1, 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELeom:ETHernet:STReam:FILTer:PRECedence:IPV

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC

Description	This command sets the Source MAC address, if the filter type is MAC Address Source for specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type MAC Source Address > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC <wsp><Filterno>,<Criterion>,<Address>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element. Selects the Source MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, SMAC SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC 2,1, 00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC? 2,1 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC?	
Description	This query returns the Source MAC address, if the filter type is MAC address Source for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type MAC Source Address > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns source MAC address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 3,1, SMAC SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC 3,1, 00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC? 3,1 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP

Description	This command sets the Transport Control Protocol (TCP) Source Port, if filter type is TCP source port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP <wsp><Filterno>, <Criterion>, <Port>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Source TCP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TSOURCE SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP 2,1, 65 SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP? 2,1 Returns: 65
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?	
Description	This query returns the Transport Control Protocol (TCP) Source Port, if filter type is TCP Source Port for a specific Filter No. At *RST condition, this value is set to 0. Navigation Path: Functions- > Filters - > Filters CONFig - > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP? <wsp><Filterno>, <Criterion>,[<Port.>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port.: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current TCP Source Port is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

:SENSe:DATA:TELecom:ETHeRnet:STReam:FiLTeR:SOURce:TCP ?

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns source TCP port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TSOURCE SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP 2,1, 65 SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP? 2,1 Returns: 66
See Also	SENSe:DATA:TELecom:ETHeRnet:STReam:FiLTeR:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP	
Description	This command sets the User Data Protocol (UDP) Source Port, if the filter type is UDP Source Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters CONFig > Filter type UDP Source Port > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP <wsp> <Filterno>, <Criterion>, <Port>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Source UDP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, USO SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP 2,1, 65 SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP? 2,1 Returns: 65
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP?

Description	This query returns the User Data Protocol (UDP) source port, if the Filter type is UDP source port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type UDP Source Port > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:UDP? <wsp> <Filterno> , <Criterion> , [<Port>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Source UDP Port address. This parameter is optional. If no token is specified, the current UDP Source Port for a specific Filter Number is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP?

Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns source UDP port address.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, USO SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP 2,1, 65 SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP? 2,1 Returns: 65
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:TOS

Description	This command sets the Type of Service (TOS) value, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 0000 0000. Navigation Path: Functions > Filters & Packet Capture > Filter CONFig > Filter type TOS > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:TOS <wsp><Filterno>, <Criterion>, <Tos>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TOS value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TOS SENS:DATA:TEL:ETH:STR:FILT:TOS 2,1, 30 SENS:DATA:TEL:ETH:STR:FILT:TOS? 2,1 Returns: 30
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FiLTeR:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion	
Description	This command sets the Traffic Class (TOS/DS) value of IPv6. At *RST condition, this value is set to #B00. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion <wsp> <Filterno>, <Criterion>, <Tclass>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tclass: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Traffic Class (TOS/DS) value.
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPV6 SENS:DATA:TEL:ETH:STR:FILT:TOS:IPV 2,1, #B001 SENS:DATA:TEL:ETH:STR:FILT:TOS:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TClass:IPV?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion?

Description	This query returns the Traffic Class (TOS/DS) value of IPv6. At *RST condition, this value is set to #B00. Navigation Path: Functions > Filters > Filter CONFig > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion? <wsp><Filterno>,<Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of precedence.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, IPVT SENS:DATA:TEL:ETH:STR:FILT:TOS:IPV 2,1, #B001 SENS:DATA:TEL:ETH:STR:FILT:TOS:IPV? 2,1 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TClass:IPV

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?	
Description	This query returns the Type of Service (TOS) value, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 0*00. Navigation Path: Functions > Filters & Packet Capture > Filter type TOS > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS? <wsp><Filterno>, <Criterion>,[<Tos>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Gets the TOS value. This parameter is optional. If no token is specified, the current TOS value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tos>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of the Type of Service (TOS) value.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, TOS SENS:DATA:TEL:ETH:STR:FILT:TOS 2,1, 30 SENS:DATA:TEL:ETH:STR:FILT:TOS? 2,1 Returns: 30
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE	
Description	This command selects the type of filter. At *RST condition, this value is set to None. Navigation Path: Functions > Filters & Packet Capture > Filter CONFig > Filter
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE <wsp><Filterno>, <Criterion>, <Type>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Type: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of filter. NONE: No filter; DMAC: Destination MAC address; SMAC: the Source MAC address; VLANid: C-VLAN ID; VPriority: C-VLAN Priority; VLAN2id: S-VLAN ID; V2Priority: S-VLAN Priority; VLAN3id: E-VLAN ID; V3Priority: E-VLAN Priority; IPDestination: the Destination IP address; IPSource: the IP Source address; TOS: Type of Service (TOS); PREcedence: Precedence; DSErvice: Differentiated Services; UDEstination: UDP Destination port; USource: UDP Source port; ETHertype: Ether Type; IPPRotocol: IP Protocol; IPVDESTINATION: IPv6 Destination IP address; IPVSOURCE: IPv6 Source address; IPVFLABEL: IPv6 Flow Label; IPVNHEADER: IPv6 Next Header; IPVDIFFSERV: IPv6 Differentiated Services; IPVPRECEDENCE: IPv6 Precedence; IPVTTOS: IPv6 Type of Service (TOS); TDEstination: TCP Destination; TSOURCE: TCP Source; FFORMAT: Frame Format; MLABEL1: MPLS Label 1; MLABEL2: MPLS Label 2; MCOS1: MPLS COS 1; MCOS2: MPLS COS 2
Response Syntax	<Tos>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, DMAC SENS:DATA:TEL:ETH:STR:FILT:TYPE? 1, 1 Returns: DMAC
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE?

Description	This query returns the type of filter. At *RST condition, this value is set to None. Navigation Path: Functions > Filters & Packet Capture > Filter CONFig > Filter
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE? <wsp><Filterno>, <Criterion>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of filter. NONE: No filter; DMAC: Destination MAC address; SMAC: the Source MAC address; VLANid: C-VLAN ID; VPriority: C-VLAN Priority; VLAN2id: S-VLAN ID; V2Priority: S-VLAN Priority; VLAN3id: E-VLAN ID; V3Priority: E-VLAN Priority; IPDestination: the Destination IP address; IPSource: the IP Source address; TOS: Type of Service (TOS); PRECedence: Precedence; DSErvice: Differentiated Services; UDEstination: UDP Destination port; USource: UDP Source port; ETHertype: Ether Type; IPProtocol: IP Protocol; IPVDESTINATION: IPv6 Destination IP address; IPVSOURCE: IPv6 Source address; IPVFLABEL: IPv6 Flow Label; IPVNHEADER: IPv6 Next Header; IPVDIFFSERV: IPv6 Differentiated Services; IPVPRECEDENCE: IPv6 Precedence; IPTOS, indicates IPv6 Type of Service (TOS); TDESTINATION: TCP Destination; TSOURCE: TCP Source; FFORMAT: Frame Format; MLABEL1: MPLS Label 1; MLABEL2: MPLS Label 2; MCOS1: MPLS COS 1; MCOS2: MPLS COS 2
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 1, 1, DMAC SENS:DATA:TEL:ETH:STR:FILT:TYPE? 1, 1 Returns: DMAC
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:VLAN:ID	
Description	This command sets the value of the VLAN identifier, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Vlan ID > Value
Syntax	:SENSe:DATA:TELeom:ETHernet:STReam:FILTer:VLAN:ID <wsp> <Filterno>, <Criterion>, <Vlan>, <ID>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the VLAN. Vlan stack is always 1 2 3 ID: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Identifier. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID

**Response
Syntax**

<Type>

Example(s)

SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,VLANID
SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID 2,1, 1,4095
SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID? 2,1, 1
Returns: 4095

See Also

SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE
SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRiority
SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRiority?

:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID?	
Description	This query returns the value of VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Vlan ID > Value
Syntax	:SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID? <wsp><Filterno>, <Criterion>, <Vlan>,[<ID>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the VLAN. Vlan stack is always 1 2 3 ID: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current VLAN value is returned. MAXimum is used to retrieve the instrument's greatest supported VLAN value. MINimum is used to retrieve the instrument's smallest supported VLAN value. DEFault: Default value
Response Syntax	<Id>

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

Response(s)	Id: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of the VLAN identifier.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1, VLANID SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID 2,1, 1,4095 SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID? 2,1, 1 Returns: 4095
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIo ^{ty}	
Description	This command sets the value of the VLAN priority, if the filter type is VLAN priority for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Vlan Priority > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIo ^{ty} <wsp> <Filterno>, <Criterion>, <Vlan>, <Priority>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the VLAN. Vlan stack is always 1 2 4 Priority: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Priority. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRiory

Response Syntax	<Id>
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,VPriority SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI 2,1,1,7 SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI? 2,1,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLan:PRIoRity?	
Description	This query returns the value of Virtual Local Area Network (VLAN) priority, if the filter type is VLAN priority for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Filters > Filter CONFig > Filter type Vlan Priority > Value
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLan:PRIoRity? <wsp><Filterno>,<Criterion>,<Vlan>,[<Priority>]
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10. Criterion: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the VLAN. Vlan stack is always 1 2 5 Priority: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the value of VLAN Priority. This parameter is optional. If no token is specified, the current VLAN Priority value is returned. MAXimum is used to retrieve the instrument's greatest supported VLAN Priority value. MINimum is used to retrieve the instrument's smallest supported VLAN Priority value. DEFault: Default value
Response Syntax	<Priority>

**:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIOri
ty?**

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of VLAN priority.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,VPriority SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI 2,1,1,7 SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI? 2,1,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer?	
Description	The query returns the status of corresponding filter for a specific Filter Number. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Filters > Enable
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FILTer? <wsp><Filterno>
Parameter(s)	Filterno: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter number from 1 to 10.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of corresponding filter for a specific filter number.
Example(s)	SENS:DATA:TEL:ETH:STR:FILT 1, ON SENS:DATA:TEL:ETH:STR:FILT? 1 Returns: 1
See Also	SENSe:DATA:TELecom:CAPTure:TSource:FNUMber?

Packet Capture

:FETCh:DATA:TELecom:ETHernet:BUFFer:UTILization?

Description	This query returns Buffer Utilization value in percentage. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Buffer Usage
Syntax	:FETCh:DATA:TELecom:ETHernet:BUFFer:UTILization?
Response Syntax	<Buffer>
Response(s)	Buffer: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Buffer Utilization value.
Example(s)	FETC:DATA:TEL:ETH:BUFF:UTIL?
See Also	FETCh:DATA:TELecom:ETHernet:STATus?

:FETCh:DATA:TELecom:ETHernet:CFG:STATus?	
Description	This query returns the configuration status. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > CFG Status
Syntax	:FETCh:DATA:TELecom:ETHernet:CFG:STATus?
Response Syntax	<CFG Status>
Response(s)	CFG Status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the configuration status.
Example(s)	FETC:DATA:TEL:ETH:CFG:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:BUFFer:UTILization?

:FETCh:DATA:TELeom:ETHernet:FRAMe:COUnT?

Description	This query indicates the number of frames captured that match the selected filter criteria. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Frame Count
Syntax	:FETCh:DATA:TELeom:ETHernet:FRAMe:COUnT?
Response Syntax	<FrameCount>
Response(s)	FrameCount: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame count.
Example(s)	FETC:DATA:TEL:ETH:FRAM:COUN?
See Also	FETCh:DATA:TELeom:ETHernet:CFG:STATus?

:FETCh:DATA:TELeom:ETHernet:STATus?	
Description	This query returns the capture status. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Capture Status
Syntax	:FETCh:DATA:TELeom:ETHernet:STATus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the capture status. PENDING, returns the capture status as PENDING. ARMED, returns the capture status as ARMED. CAPTURING, returns the capture status as CAPTURING. COMPLETED, returns the capture status as COMPLETED.
Example(s)	FETC:DATA:TEL:ETH:STAT?
See Also	SOURce:DATA:TELeom:ETHernet:GLOBal:CONTRol?

:FETCh:DATA:TELeom:ETHernet:TRIGger:ERRor?

Description	This query returns the Trigger error. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Trigger Error
Syntax	:FETCh:DATA:TELeom:ETHernet:TRIGger:ERRor?
Response Syntax	<TriggerError>
Response(s)	TriggerError: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Trigger error. ANYTYPE: ANYTYPE error is selected as trigger source type. IPchecksum: IP Checksum error is selected as trigger source type. FCS: FCS error is selected as trigger source type. JABber: Jabber error is selected as trigger source type. RUNt: Runt error is selected as trigger source type. UNDERSIZED: Undersized error is selected as trigger source type. TCPCHECKSUM: TCP checksum error is selected as trigger source type. UDPCHECKSUM: UDP checksum error is selected as trigger source type. OVERSIZED: Oversized error is selected as trigger source type.
Example(s)	FETC:DATA:TEL:ETH:TRIG:ERR?
See Also	FETCh:DATA:TELeom:ETHernet:FRAMe:COUNT?

:SOURce:DATA:TELeom:CAPTure:BYTE	
Description	This command sets the number of bytes to capture for capture CONFig. At *RST condition, this value is set to 14. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Frame Length > Truncated > Bytes
Syntax	:SOURce:DATA:TELeom:CAPTure:BYTE <wsp> <Size>
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value for number of bytes to capture. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TriggerError>
Example(s)	SOUR:DATA:TEL:CAPT:BYTE 16 SOUR:DATA:TEL:CAPT:BYTE? SOUR:DATA:TEL:CAPT:BYTE MIN SOUR:DATA:TEL:CAPT:BYTE MAX
See Also	SOURce:DATA:TELeom:CAPTure:FRAMe:SIZE SOURce:DATA:TELeom:CAPTure:FRAMe:SIZE?

:SOURce:DATA:TELecom:CAPTure:BYTE?

Description	This query returns the number of bytes to capture for capture CONFig. At *RST condition, this value is set to 14. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Frame Length > Truncated > Bytes
Syntax	:SOURce:DATA:TELecom:CAPTure:BYTE?[<wsp><Size>]
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Set the number of bytes to capture. This parameter is optional. If no token is specified, the current number of bytes to capture is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Byte>
Response(s)	Byte: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value for number of bytes to capture. The valid values are 14 to 1536.
Example(s)	SOUR:DATA:TEL:CAPT:BYTE? SOUR:DATA:TEL:CAPT:BYTE 16 SOUR:DATA:TEL:CAPT:BYTE? MIN SOUR:DATA:TEL:CAPT:BYTE? MAX
See Also	SOURce:DATA:TELecom:CAPTure:FRAMe:SIZE?

:SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE	
Description	This command sets the capture source for capture CONFig. At *RST condition, this value is set to Interface. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Capture Source
Syntax	:SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the capture source type. Allows you to select the filter number 0 to 10. 0 is for Interface selection.
Response Syntax	<Byte>
Example(s)	SOUR:DATA:TEL:CAPT:FILT:TYPE 1 SOUR:DATA:TEL:CAPT:FILT:TYPE? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:ALARm:PHYSical

:SOURce:DATA:TELeom:CAPTure:FILTer:TYPE?

Description	This query returns the capture source for capture CONFIG. At *RST condition, this value is set to Interface. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Capture Source
Syntax	:SOURce:DATA:TELeom:CAPTure:FILTer:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the capture source type. 0 to 10 filters. 0, interface is selected as the capture source type.
Example(s)	SOUR:DATA:TEL:CAPT:FILT:TYPE 1 SOUR:DATA:TEL:CAPT:FILT:TYPE? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:ALARm:PHYSical SOURce:DATA:TELeom:ETHernet:ALARm:PHYSical?

:SOURce:DATA:TELEcom:CAPTure:FRAMe:SIZE	
Description	This command sets the frame size type for capture CONFig. At *RST condition, this value is set to Complete. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Frame Length
Syntax	:SOURce:DATA:TELEcom:CAPTure:FRAMe:SIZE <wsp> <Size Type>
Parameter(s)	Size Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Frame Size type. COMplete: COMplete TRUncate: TRUncated
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CAPT:FRAM:SIZE COM SOUR:DATA:TEL:CAPT:FRAM:SIZE? Returns: COMPLETE
See Also	SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE

:SOURce:DATA:TELEcom:CAPTure:FRAME:SIZE?

Description	This query returns the frame size type for capture CONFig. At *RST condition, this value is set to Complete. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Frame Length
Syntax	:SOURce:DATA:TELEcom:CAPTure:FRAME:SIZE?
Response Syntax	<Size Type>
Response(s)	Size Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Frame Size type. COMplete, COMplete is selected as the Frame Size type. TRUNCATE, TRUncated is selected as Frame Size type.
Example(s)	SOUR:DATA:TEL:CAPT:FRAM:SIZE COM SOUR:DATA:TEL:CAPT:FRAM:SIZE? Returns: COMPLETE
See Also	SOURce:DATA:TELEcom:CAPTure:FILTer:TYPE

:SOURce:DATA:TELeom:CAPTure:TRIGger	
Description	This command sets the trigger position. At *RST condition, this value is set to Post-trigger. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Position
Syntax	:SOURce:DATA:TELeom:CAPTure:TRIGger <wsp> <Position>
Parameter(s)	Position: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the trigger position. PRE: Pre-trigger. MIDdle: Mid-trigger. POST: Post-trigger.
Response Syntax	<Size Type>
Example(s)	SOUR:DATA:TEL:CAPT:TRIG PRE SOUR:DATA:TEL:CAPT:TRIG? Returns: PRE
See Also	SOURce:DATA:TELeom:CAPTure:BYTE

:SOURce:DATA:TELeom:CAPTure:TRIGger?

Description	This query returns the trigger position. At *RST condition, this value is set to Post-trigger. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Position
Syntax	:SOURce:DATA:TELeom:CAPTure:TRIGger?
Response Syntax	<Position>
Response(s)	Position: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the trigger position. PRE, Pre-trigger is selected as the trigger position. MID, Mid-trigger is selected as the trigger position. POST, Post-trigger is selected as the trigger position.
Example(s)	SOUR:DATA:TEL:CAPT:TRIG POST SOUR:DATA:TEL:CAPT:TRIG? Returns: POST
See Also	SOURce:DATA:TELeom:CAPTure:BYTE?

:SOURce:DATA:TELecom:CAPTure:TSource	
Description	This command sets the Trigger Type. At *RST condition, this value is set to Manual. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Type
Syntax	:SOURce:DATA:TELecom:CAPTure:TSource <wsp><TYPE>
Parameter(s)	TYPE: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the trigger type. ONERror: ONERROR FMArch: FMArch MANual: MANual
Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:CAPT:TSource ONERROR SOUR:DATA:TEL:CAPT:TSource? Returns: ONERROR
See Also	SOURce:DATA:TELecom:CAPTure:TRIGger

:SOURce:DATA:TELeom:CAPTure:TSource:TYPE

Description	This command sets the type of ON Error. At *RST condition, this value is set to FCS. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Type > ON Error
Syntax	:SOURce:DATA:TELeom:CAPTure:TSource:TYPE <wsp><TYPE>
Parameter(s)	TYPE: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of ON error. ANYTYPE: the ANY error trigger source type. IPchecksum: the IP Checksum error trigger source type. FCS: the FCS error trigger source type. JABber: the Jabber error trigger source type. RUNt: the Runt error trigger source type. UNDERSIZED: the Undersized error trigger source type. TCPchecksum: the TCP checksum error trigger source type. UDPchecksum: the UDP checksum error trigger source type. OVERSIZED: the Oversized error trigger source type.
Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:CAPT:TSource:TYPE FCS SOUR:DATA:TEL:CAPT:TSource:TYPE? Returns: FCS
See Also	SOURce:DATA:TELeom:CAPTure:TSource

:SOURce:DATA:TELeom:CAPTure:TSource:TYPE?	
Description	This query returns the type of ON Error. At *RST condition, this value is set to FCS. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Type > ON Error
Syntax	:SOURce:DATA:TELeom:CAPTure:TSource:TYPE?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of ON error. ANYTYPE, ANYTYPE error is selected as trigger source type. IPchecksum, IP Checksum error is selected as trigger source type. FCS, FCS error is selected as trigger source type. JABber, Jabber error is selected as trigger source type. RUNt, Runt error is selected as trigger source type. UNDERSIZED, Undersized error is selected as trigger source type. TCPCHECKSUM, TCP checksum error is selected as trigger source type. UDPCHECKSUM, UDP checksum error is selected as trigger source type. OVERSIZED, Oversized error is selected as trigger source type.
Example(s)	SOUR:DATA:TEL:CAPT:TSource:TYPE FCS SOUR:DATA:TEL:CAPT:TSource:TYPE? Returns: FCS
See Also	SOURce:DATA:TELeom:CAPTure:TSource:TYPE? SOURce:DATA:TELeom:CAPTure:TSource:TYPE

:SOURce:DATA:TELecom:CAPTure:TSource?

Description	This query returns the Trigger Type. At *RST condition, this value is set to Manual. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Trigger > Trigger Type
Syntax	:SOURce:DATA:TELecom:CAPTure:TSource?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the trigger type. ONERROR, returns the trigger type as ONERROR. FMAth, returns the trigger type as FMAth. MANual, returns the trigger type as MANual.
Example(s)	SOUR:DATA:TEL:CAPT:TSource ONERROR SOUR:DATA:TEL:CAPT:TSource? Returns: ONERROR
See Also	SOURce:DATA:TELecom:CAPTure:TRIGger?

:SOURce:DATA:TELecom:ETHernet:GLOBal:CONTRol

Description	This command enables the Capture. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Capture
Syntax	:SOURce:DATA:TELecom:ETHernet:GLOBal:CONTRol <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Capture. ON: Enabled OFF: Disabled
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:ETH:GLOB:CONT ON SOUR:DATA:TEL:ETH:GLOB:CONT? Returns: 1
See Also	SOURce:DATA:TELecom:CAPTure:TSource:TYPE

:SOURce:DATA:TELEcom:ETHernet:GLOBal:CONTrol?

Description	This query returns the Capture status. This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Capture
Syntax	:SOURce:DATA:TELEcom:ETHernet:GLOBal:CONTrol?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Capture. 0, returns the capture status as OFF. 1, returns the capture status as ON.
Example(s)	SOUR:DATA:TEL:ETH:GLOB:CONT ON SOUR:DATA:TEL:ETH:GLOB:CONT? Returns: 1
See Also	SOURce:DATA:TELEcom:CAPTure:TSource:TYPE?

Triggered Frame Details

:SENSe:DATA:TELecom:CAPTure:TSource:DESTination:IP?	
Description	This query displays the trigger Destination IP address. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELecom:CAPTure:TSource:DESTination:IP?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the TriggerSource destination IP address.
Example(s)	SENS:DATA:TEL:CAPT:TSource:DEST:IP?
See Also	SENSe:DATA:TELecom:CAPTure:TSource:DESTination:MAC?

:SENSe:DATA:TELeom:CAPTure:TSource:DESTination:MAC?

Description	This query displays the trigger Destination MAC address. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELeom:CAPTure:TSource:DESTination:MAC?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the TriggerSource destination MAC address.
Example(s)	SENS:DATA:TEL:CAPT:TSource:DEST:MAC?
See Also	SENSe:DATA:TELeom:CAPTure:TSource:DESTination:IP?

:SENSe:DATA:TELecom:CAPTure:TSource:DESTination:PORT?

Description	This query displays the trigger Destination Port number. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELecom:CAPTure:TSource:DESTination:PORT?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Trigger destination port number.
Example(s)	SENS:DATA:TEL:CAPT:TSource:DEST:PORT?
See Also	SENSe:DATA:TELecom:CAPTure:TSource:FNUMber?

:SENSe:DATA:TELecom:CAPTure:TSource:FNUMber?

Description	This query displays the trigger frame number. This query is an event and is not associated with an *RST condition or a query form. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELecom:CAPTure:TSource:FNUMber?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Trigger Source frame number.
Example(s)	SENS:DATA:TEL:CAPT:TSource:FNUM?
See Also	SENSe:DATA:TELecom:CAPTure:TSource:SOURce:PORT?

:SENSe:DATA:TELeom:CAPTure:TSource:SOURce:IP?	
Description	This query displays the trigger source IP address. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELeom:CAPTure:TSource:SOURce:IP?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Trigger source IP address.
Example(s)	SENS:DATA:TEL:CAPT:TSource:SOUR:IP?
See Also	SENSe:DATA:TELeom:CAPTure:TSource:SOURce:MAC?

:SENSe:DATA:TELecom:CAPTure:TSource:SOURce:MAC?

Description	This query displays the trigger source MAC Address. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELecom:CAPTure:TSource:SOURce:MAC?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Trigger source MAC address.
Example(s)	SENS:DATA:TEL:CAPT:TSource:SOUR:MAC?
See Also	SENSe:DATA:TELecom:CAPTure:TSource:SOURce:IP?

:SENSe:DATA:TELeom:CAPTure:TSource:SOURce:PORT?

Description	This query displays the trigger source PORT number. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Status And Controls > Details > Trigger Frame Details
Syntax	:SENSe:DATA:TELeom:CAPTure:TSource:SOURce:PORT?
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TriggerSource source port number.
Example(s)	SENS:DATA:TEL:CAPT:TSource:SOUR:PORT?
See Also	SENSe:DATA:TELeom:CAPTure:TSource:FNUMber?

Filter Configuration

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CL OSe	
Description	This command selects the close parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig)
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CLOSe <wsp><Criterion> , <Set>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the close parenthesis. ON, enables the close parenthesis. OFF, disables the close parenthesis.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:CLOS 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:CLOS? 2 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CL OSe?	
Description	This query returns the selected close parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig)
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CLOSe? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of close parenthesis. 1, returns the close parenthesis is enabled. 0, returns the close parenthesis is disabled.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:CLOS 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:CLOS? 2 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

**:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:BRACket:OP
EN**

Description	This command selects the open parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig (
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:BRACket:OPEN <wsp><Criterion>, <Set>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the open parenthesis. ON, enables the open parenthesis. OFF, disables the open parenthesis.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:OPEN 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:OPEN? 2 Returns: 1
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:BRACket:CLOSe SENSe:DATA:TELeom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:BRACket:OP EN?	
Description	This query returns the selected open parenthesis to control the precedence of operands when two operands are used. At *RST condition, this value is set to blank. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig (
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:BRACket:OPEN? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of open parenthesis. 1, bracket open is enabled. 0, bracket open is disabled.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:OPEN 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:BRAC:OPEN? 2 Returns: 1
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:BRACket:OPEN SENSe:DATA:TELeom:ETHernet:STReam:FILTer:BRACket:OPEN?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IP

Description	This command sets the Destination Internet Protocol (IP) address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IP <wsp><Criterion>, <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Destination IP address.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IP 2,11.22.33.44 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IP? 2 Returns: 11.22.33.44
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IP?	
Description	This query returns the Destination Internet Protocol (IP) address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IP? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns destination IP address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IP 2,11.22.33.44 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IP? 2 Returns: 11.22.33.44
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:MAC?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IPVersion

Description	This command sets the Destination Internet Protocol (IPv6) address, if the filter type is IPv6 Address Destination for a specific Filter Number. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IPVersion <wsp><Criterion>,<Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Destination IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOUR:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOUR:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IPVersion?

Description	This query returns the Destination Internet Protocol (IPv6) address, if the filter type is IPv6 Address Destination for a specific Filter Number. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:IPVersion? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns destination IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOUR:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOUR:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:MAC

Description	This command sets the Destination Media Access Control (MAC) address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:MAC <wsp> <Criterion>, <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Destination MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:MAC 2,00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:DEST:MAC? 2 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:MAC?

Description	This query returns the Destination Media Access Control (MAC) address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:MAC? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns destination MAC address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:MAC 2,00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:DEST:MAC? 2 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:IP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:TCP

Description	This command sets the TCP Destination Port, if filter type is TCP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:TCP <wsp><Criterion>,<port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Destination TCP port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:TCP 2,50 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:TCP? 2 Returns: 50
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:TCP?	
Description	This query returns the TCP Destination Protocol (TDP) Destination Port, if the filter type is TCP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:TCP? <wsp><Criterion>,[<Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Destination TCP port address. This parameter is optional. If no token is specified, the current Destination TCP port value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns destination TCP port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:TCP 2,50 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:TCP? 2 Returns: 50
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP

Description	This command sets the User Datagram Protocol (UDP) Destination Port, if filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP <wsp> <Criterion> , <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Destination UDP port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:UDP 2,50 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:UDP? 2 Returns: 50
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP?	
Description	This query returns the User Datagram Protocol (UDP) Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP? <wsp><Criterion>,[<Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Destination UDP port address. This parameter is optional. If no token is specified, the current Destination UDP port value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns destination UDP port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DEST:UDP 2,50 SENS:DATA:TEL:ETH:FMAT:FILT:DEST:UDP? 2 Returns: 50
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:DSERvices

Description	This command sets the Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 000000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:DSERvices <wsp><Criterion>, <Dservices>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DSER 2,55 SENS:DATA:TEL:ETH:FMAT:FILT:DSER? 2 Returns: 55
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:PRECedence SENSe:DATA:TELeom:ETHernet:STReam:FILTer:PRECedence?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSErviceS:IPVersion	
Description	This command sets the IPv6 Differentiated Services, if the filter type is IPv6 Diff Serv for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSErviceS:IPVersion <wsp><Criterion>,<Dservices>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DSEr:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:DSEr:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices:IPVersion?

Version?

Description	This query returns the IPv6 Differentiated Services, if the filter type is IPv6 Diff Serv for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices:IPVersion? <wsp> <Criterion>,[<Services>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Services: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Differentiated Services. This parameter is optional. If no token is specified, the current Dservices value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dservices>
Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of IPv6 differentiated services.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DSER:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:DSER:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices?	
Description	This query returns the Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 000000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices? <wsp><Criterion>,[<Dservices>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Differentiated Services. This parameter is optional. If no token is specified, the current Dservices value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Dservices>
Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of differentiated services.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:DSER 2,55 SENS:DATA:TEL:ETH:FMAT:FILT:DSER? 2 Returns: 55
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:ETHertype

Description	This command sets the Ether Type value, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 0x0800. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:ETHertype <wsp> <Criterion>, <EtherType>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. EtherType: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the filter ether type value.
Response Syntax	<Dservices>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:ETH 1, #HAB SENS:DATA:TEL:ETH:FMAT:FILT:ETH? 1 Returns: 171
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:ETHertype?	
Description	This query returns the Ether Type value, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 0x0800. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:ETHertype? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<EtherType>
Response(s)	EtherType: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the EtherType value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:ETH 1, #HAB SENS:DATA:TEL:ETH:FMAT:FILT:ETH? 1 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FLABel:IPVer
sion

Description	This command sets the IPv6 Flow Label, if the filter type is IPv6 Flow Label for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FLABel:IPVersion <wsp><Criterion>, <Next Header>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Flow Label. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<EtherType>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:FLAB:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:FLAB:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:NHE:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:NHE:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVer sion?	
Description	This query returns the value of IPv6 Flow Label, if the filter type is IPv6 Flow Label for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVersion? <wsp> <Criterion>,[<Next Header>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Flow Label. This parameter is optional. If no token is specified, the current Flow Label value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of IPv6 Flow Label.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:FLAB:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:FLAB:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHE:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHE:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAMe:FORMat	
Description	This command sets the Frame Format, if filter type is Frame Format for a specific Filter No. At *RST condition, this value is set to ETHERNETII. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAMe:FORMat <wsp><Criterion>,<Format>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Format: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the frame format. ETHERNETII: Ethernet II IEEE8023LLCSNAP: 802.3 SNAP
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, FFORMAT SENS:DATA:TEL:ETH:FMAT:FILT:FRAM:FORM 1, ETHERNETII SENS:DATA:TEL:ETH:FMAT:FILT:FRAM:FORM? 1 Returns: ETHERNETII
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE 1, 1, DMAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE? 1, 1

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAMe:FORMat?	
Description	This query returns the Frame Format, if filter type is Frame Format for a specific Filter No. At *RST condition, this value is set to ETHERNETII. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:FRAMe:FORMat? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns frame format. ETHERNETII, Ethernet II is current frame format. IEEE8023LlcSnap, 802.3 SNAP is current frame format.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, FFORMAT SENS:DATA:TEL:ETH:FMAT:FILT:FRAM:FORM 1, ETHERNETII SENS:DATA:TEL:ETH:FMAT:FILT:FRAM:FORM? 1 Returns: ETHERNETII
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE 1, 1, DMAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE? 1, 1

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:IPPRotocol	
Description	This command sets IP Protocol value, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:IPPRotocol <wsp><Criterion>,<Ipprotocol>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the filter IP protocol value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:ETH:FMATch:FILT:IPPR 1, 17 SENS:DATA:TEL:ETH:FMATch:FILT:IPPR? 1 Returns: 17
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:IPPRotocol?	
Description	This query returns the IP Protocol value, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 17. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:IPPRotocol? <wsp><Criterion>,[<Ipprotocol>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Gets the filter IP protocol value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Ipprotocol>
Response(s)	Ipprotocol: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IP Protocol value.
Example(s)	SENS:DATA:TEL:ETH:FMATch:FILT:IPPR 1, 17 SENS:DATA:TEL:ETH:FMATch:FILT:IPPR? 1 Returns: 17
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IP

Description	This command sets the Mask Destination IP address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IP <wsp> <Criterion>, <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Destination IP address.
Response Syntax	<Ipprotocol>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IP 2,255.255.255.255 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IP? 2 Returns: 255.255.255.255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IP?	
Description	This query returns the Mask Destination IP address, if the filter type is IP Address Destination for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IP? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Destination IP address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IP 2,255.255.255.255 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IP? 2 Returns: 255.255.255.255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion

Description	This command sets the Mask Destination IPv6 address, if the filter type is IPv6 Address Destination for a specific Filter Number. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion <wsp><Criterion>, <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Destination IPv6 address.
Response Syntax	<Address>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOUR:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOUR:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion?	
Description	This query returns the Mask Destination IPv6 address, if the filter type is IPv6 Address Destination for a specific Filter Number. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Destination IPv6 address.
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOUR:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOUR:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC

Description	This command sets the Mask Destination MAC address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC <wsp> <Criterion> , <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Destination MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:MAC 2,FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:MAC? 2 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC?

Description	This query returns the Mask Destination MAC address, if the filter type is MAC Address Destination for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC?<wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the masked Destination MAC address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:MAC 2,FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:MAC? 2 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP

Description	This command sets the Mask TCP Destination Port, if the filter type is TCP Destination Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP <wsp> <Criterion> , <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Destination TCP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:TCP 1, 23 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTInation:TCP?	
Description	This query returns the Mask TCP Destination Port, if the filter type is TCP Destination Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTInation:TCP?<wsp><Criterion>,[<TCP Destination Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. TCP Destination Port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Destination TCP Port address. This parameter is optional. If no token is specified, the current Mask Destination TCP Port address value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Destination TCP Port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:TCP 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTInation:TCP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTInation:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP

Description	This command sets the Mask UDP Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP <wsp><Criterion>, <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Destination UDP port address.
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:UDP 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:UDP? 2 Returns: 171
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP?	
Description	This query returns the Mask UDP Destination Port, if the filter type is UDP Destination Port for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Destination UDP Port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:UDP 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DEST:UDP? 2 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices

Description	This command sets the Mask Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 111111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices <wsp><Criterion>,<Dservices>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER 2,21 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER? 2 Returns: 21
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion	
Description	This command sets the Mask IPv6 Differentiated Services, if the filter type is IPv6DiffServ for a specific Filter Number. At *RST condition, this value is set to 63. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion <wsp><Criterion>, <Dservices>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Differentiated Services. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, IPVDIFFSERV SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion?

Description	This query returns the Mask IPv6 Differentiated Services, if the filter type is IPv6DiffServ for a specific Filter Number. At *RST condition, this value is set to 63. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion? <wsp><Criterion>,[<Dservices>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Retrieve the value for masked differentiated services. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Dservices>
Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked IPv6 Differentiated Services value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, IPVDIFFSERV SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSER:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices:IPV

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:MASK:DSErvice <i>s</i> ?	
Description	This query returns the Mask Differentiated Services, if the filter type is Diff Serv for a specific Filter Number. At *RST condition, this value is set to 111111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:MASK:DSErvice <i>s</i> ? <wsp><Criterion>,[<Dservices>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Dservices: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Retrieve the value for masked differentiated services. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: DEFault value
Response Syntax	<Dservices>
Response(s)	Dservices: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Differentiated Services value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSEr 2,21 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:DSEr? 2 Returns: 21
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:DSErvice <i>s</i>

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHERtype

Description	This command sets Mask Ether Type, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHertype <wsp> <Criterion> , <EtherType>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. EtherType: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Mask filter ether type value.
Response Syntax	<Dservices>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:ETH 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:ETH? 2 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHertype?	
Description	This query returns the Mask Ether Type, if the filter type is Ether Type for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:ETHertype? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<EtherType>
Response(s)	EtherType: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Masked EtherType value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:ETH 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:ETH? 2 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:ETHertype?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion

Description	This command sets the Mask IPv6 Flow Label, if the filter type is IPv6 Flow Label for a specific Filter Number. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion <wsp><Criterion>,<Flow Label>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flow Label: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Flow Label. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<EtherType>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:FLAB:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:FLAB:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHE:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHE:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABeI:IPVersion?	
Description	This query returns the value of Mask IPv6 Flow Label, if the filter type is IPv6 Flow Label for a specific Filter Number. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion?<wsp><Criterion>,[<Flow Label>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flow Label: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Flow Label. This parameter is optional. If no token is specified, the current Mask IPv6 Flow Label value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of MaskIPv6 Flow Label.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:FLAB:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:FLAB:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHE:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHE:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol

Description	This command sets Mask IP Protocol, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 0xFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol <wsp><Criterion> , <Ipprotocol>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Ipprotocol: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Mask IP protocol value.
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:IPPR 2,#HFF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:IPPR? 2 Returns: #HFF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol?	
Description	This query returns the Mask IP Protocol, if the filter type is IP Protocol for a specific Filter Number. At *RST condition, this value is set to 0xFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:IPPRotocol? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Ipprotocol>
Response(s)	Ipprotocol: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Masked IP Protocol.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:IPPR 2,#HFF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:IPPR? 2 Returns: 255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MCOS

[1..n]

Description	This command sets the Multi-Protocol Label switching Cost of Service MPLS COS value of IPv6. At *RST condition, this value is set to 1. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n] <wsp> <Criterion>, <Tclass>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tclass: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS COS value of IPv6 value. Range:1-7
Response Syntax	<Ipprotocol>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MCOS1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MCOS1 1, 4 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MCOS1? 1 Returns: 4
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel? SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MCOS [1..n]?	
Description	This query returns the Multi-Protocol Label switching Cost of Service MPLS COS value of IPv6. At *RST condition, this value is set to 1. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n]? <wsp> <Criterion> , [<MPLS COS Value>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. MPLS COS Value: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no token is specified, the current MPLS Mask COS value is returned.
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns MPLS COS value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MCOS1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MCOS1 1, 4 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MCOS1? 1 Returns: 4
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MLABel SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]

Description	This command sets the Multi-Protocol Label switching(MPLS) Mask Next Header, if Filter Type is MPLS Next Header for a specific Filter No. At *RST condition, this value is set to 1. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n] <wsp><Criterion>,<Nheader>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Nheader: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS Mask Next Header. Range:1-1048575
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MLABEL1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MLAB1 1, 56 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MLAB1? 1 Returns: 56
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MCOS1? SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]?	
Description	This query returns the Multi-Protocol Label switching(MPLS) Mask Next Header, if Filter Type is MPLS Next Header for a specific Filter No. At *RST condition, this value is set to 1. Navigation Path: Functions- > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig > Mask
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Nheader>
Response(s)	Nheader: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS Mask Next Header.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MLABEL1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MLAB1 1, 56 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:MLAB1? 1 Returns: 56
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:MCOS1 SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion

Description	This command sets the Mask IPv6 Next Header, if the filter type is IPv6 Next Header for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion <wsp><Criterion>, <Next Header>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Next Header. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Nheader>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:NHE:IPV 1, 23 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:NHE:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer: MASK:FLAB:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer: MASK:FLAB:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion?	
Description	This query returns the value of Mask IPv6 Next Header, if the filter type is IPv6 Next Header for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion? <wsp><Criterion>,[<Next Header>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Next Header. This parameter is optional. If no token is specified, the current Mask IPv6Next Header value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of Mask IPv6 Next Header.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:NHE:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:NHE:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer: MASK:FLAB:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer: MASK:FLAB:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECe
dence

Description	This command sets the Mask Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECedence <wsp><Criterion>, <Precedence>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC 2,1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC? 2 Returns: 1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERVICES SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERVICES?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECe dence:IPVersion	
Description	This command sets the Mask IPv6 Precedence, if the filter type is IPv6Precedence for a specific Filter Number. At *RST condition, this value is set to 7. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECedence:IPVersion <wsp><Criterion>, <Precedence>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask IPv6 Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, IPVPRECEDENCE SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERVICES:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERVICES:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECe
dence:IPVersion?

Description	This query returns the Mask IPv6 Precedence, if the filter type is IPv6Precedence for a specific Filter Number. At *RST condition, this value is set to 7. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:PRECedence:IPVersion? <wsp><Criterion>,[<Precedence>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Retrieve the value for masked precedence. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked IPv6 Precedence value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, IPVPRECEDENCE SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DSERvices:IPV?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:MASK:PRECe dence?	
Description	This query returns the Mask Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:MASK:PRECe dence? <wsp><Criterion>,[<Precedence>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum retrieve the value for masked precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Precedence value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC 2,1 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:PREC? 2 Returns: 1
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:DSERVICES SENSe:DATA:TELeom:ETHernet:STReam:FILTer:MASK:DSERVICES?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP

Description	This command sets the Mask Source IP Address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP <wsp><Criterion>,<Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Source IP address.
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IP 2,255.255.255.255 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IP? 2 Returns: 255.255.255.255
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:IP?	
Description	This query returns the Mask Source IP Address, if the filter type is IP Address Source for a specific Filter Number. At *RST condition, this value is set to 255.255.255.255. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:IP? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns masked Source IP address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IP 2,255.255.255.255 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IP? 2 Returns: 255.255.255.255
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion

Description	This command sets the Mask Source IPv6 Address, if the filter type is IPv6 Address Source for a specific Filter Number. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion <wsp> <Criterion> , <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Source IPv6 address.
Response Syntax	<Address>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DEST:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DEST:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion?	
Description	This query returns the Mask Source IPv6 Address, if the filter type is IPv6 Address Source for a specific Filter Number. At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion?<wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns masked Source IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DEST:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:DEST:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC

Description	This command sets the Mask Source MAC Address, if the filter type is MAC Address Source for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC <wsp><Criterion>,<Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Mask Source MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:MAC 2,FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:MAC? 2 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC?	
Description	This query returns the Mask Source MAC Address, if the filter type is MAC Address Source for a specific Filter Number. At *RST condition, this value is set to FF:FF:FF:FF:FF:FF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns masked Source MAC address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:MAC 2,FF:FF:FF:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:MAC? 2 Returns: FF:FF:FF:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP

Description	This command sets the Mask TCP Source Port, if the filter type is TCP Source Port for a specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP <wsp> <Criterion> , <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Source TCP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:TCP 1, 23 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP?	
Description	The query returns the Mask TCP Source Port, if the filter type is TCP Source Port for specific Filter Number. At *RST condition, this value is set to 65535. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP? <wsp><Criterion>,[<TCP Source Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. TCP Source Port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Source TCP Port address. This parameter is optional. If no token is specified, the current Mask Source TCP Port address value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Source TCP Port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:TCP 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP

Description	This command sets the Mask UDP Source Port, if the filter type is UDP Source Port for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP <wsp> <Criterion>, <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Source UDP Port address.
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:UDP 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:UDP? 2 Returns: 171
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP?	
Description	The query returns the Mask UDP Source Port, if the filter type is UDP Source Port for specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Source UDP Port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:UDP 2,#HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:SOUR:UDP? 2 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:UDP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS

Description	This command sets the Mask TOS, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 1111 1111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS <wsp><Criterion>, <Tos>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Mask Type of Service (TOS). MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS 2,60 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS? 2 Returns: 60
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion	
Description	This command sets the Mask IPv6 TOS, if the filter type is IPv6 TOS for a specific Filter Number.
	At *RST condition, this value is set to 255.
	Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion <wsp><Criterion>, <Tos>
Parameter(s)	Criterion:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the filter criterion number from 1 to 4.
	Tos:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Mask IPv6 Type of Service (TOS).
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS:IPV 1, 23
	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS:IPV? 1
	Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion?

Version?

Description	This query returns the Mask IPv6 TOS, if the filter type is IPv6 TOS for a specific Filter Number. At *RST condition, this value is set to 255. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion? <wsp><Criterion>,[<Tos>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Retrieve the value for masked IPv6 TOS. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Tos>
Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked IPv6 Type of Service (TOS).
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS?	
Description	This query returns the Mask TOS, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 1111 1111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS? <wsp><Criterion>,[<Tos>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Retrieve the value for masked TOS. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tos>
Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the masked Type of Service (TOS).
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS 2,60 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:TOS? 2 Returns: 60
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:
ID

Description	This command sets the Mask VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0xFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:ID <wsp> <Criterion>, <Vlan>, <Id>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Id: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the value of masked VLAN Identifier.
Response Syntax	<Tos>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:ID 2,1, #HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:ID? 2,1 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:ID?	
Description	This query returns the Mask VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0xFFFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:ID? <wsp> <Criterion> , <Vlan>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN.
Response Syntax	<VlanId>
Response(s)	VlanId: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of masked VLAN identifier.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:ID 2,1 , #HAB SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:ID? 2,1 Returns: 171
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:PRiority

Description	This command sets the Mask VLAN Priority, if the filter type is VLAN Priority for a specific Filter Number. At *RST condition, this value is set to 111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:MASK:VLAN:PRiority <wsp><Criterion>, <Vlan>, <Priority>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Priority: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of masked VLAN Priority. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<VlanId>
Example(s)	SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:PRI 2,1, 2 SENSe:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:PRI? 2,1 Returns: 2
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRiority SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRiority?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:PRlority?	
Description	This query returns the Mask VLAN Priority, if the filter type is VLAN Priority for a specific Filter Number. At *RST condition, this value is set to 111. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFIG > Filter CONFIG
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:PRlority? <wsp><Criterion>,<Vlan>,[<Priority>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the masked VLAN. Priority: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the masked VLAN Priority. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Priority>

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:PRlority?

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of masked VLAN Priority.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:PRI 2,1, 2 SENS:DATA:TEL:ETH:FMAT:FILT:MASK:VLAN:PRI? 2,1 Returns: 2
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRlority?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n]	
Description	This command sets the Multi-Protocol Label switching Cost of Service (MPLS COS), if Filter Type is MPLS COS Label for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFIG > Filter CONFIG
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n] <wsp><Criterion>, <Flabel>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flabel: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS COS Label. Range:0-7
Response Syntax	<Priority>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MCOS1 SENS:DATA:TEL:ETH:FMAT:FILT:MCOS1 1, 6 SENS:DATA:TEL:ETH:FMAT:FILT:MCOS1? 1 Returns: 6
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n]?

Description	This query returns the Multi-Protocol Label switching Cost of Service(MPLS COS) Label, if Filter Type is MPLS COS Label for a specific Filter No. At *RST condition, this value is set to 7. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n]? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<FLABEL>
Response(s)	FLABEL: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS COS Label.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MCOS1 SENS:DATA:TEL:ETH:FMAT:FILT:MCOS1 1, 6 SENS:DATA:TEL:ETH:FMAT:FILT:MCOS1? 1 Returns: 6
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n]	
Description	This command sets the Multi-Protocol Label switching(MPLS), if Filter Type is MPLS Label for a specific Filter No. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n] <wsp><Criterion>, <Flabel>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Flabel: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the MPLS Label. Range:0-1048575
Response Syntax	<FLABEL>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MLABEL1 SENS:DATA:TEL:ETH:FMAT:FILT:MLAB1 1, 20 SENS:DATA:TEL:ETH:FMAT:FILT:MLAB1? 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n]
?

Description	This query returns the Multi-Protocol Label switching(MPLS), if Filter Type is MPLS Label for a specific Filter No. At *RST condition, this value is set to 1048575. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n]? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<FLABEL>
Response(s)	FLABEL: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the MPLS Label.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, MLABEL1 SENS:DATA:TEL:ETH:FMAT:FILT:MLAB1 1, 20 SENS:DATA:TEL:ETH:FMAT:FILT:MLAB1? 1 Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:NHEader:IPVersion	
Description	This command sets the IPv6 Next Header, if the filter type is IPv6 Next Header for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:NHEader:IPVersion <wsp> <Criterion>, <Next Header>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Next Header. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<FLABEL>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:NHE:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:NHE:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLAB:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:FLAB:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:NHEader:IPVersion?

Description	This query returns the value of IPv6 Next Header, if the filter type is IPv6 Next Header for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:NHEader:IPVersion? <wsp><Criterion>,[<Next Header>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Next Header: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no token is specified, the current Next Header value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of IPv6 Next Header.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:NHE:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:NHE:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLAB:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLAB:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator

Description	This command selects the logical operator (AND or OR) between two operands when more than two operands are used. At *RST condition, this value is set to AND. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig > Oper.
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator <wsp><Criterion>, <Operator>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Operator: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the logical operators. AND OR
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:OPER 1, AND SENS:DATA:TEL:ETH:FMAT:FILT:OPER? 1 Returns: AND
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT

Description	This command selects the Operator Not. When it is selected, add the logical negation (not equal) operator for the operand filter defined. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig > Not
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT <wsp> <Criterion>, <Set>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Set: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables or disables the NOT operator. ON, enables the NOT operator. OFF, disables the NOT operator.
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:OPER:NOT 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:OPER:NOT? 2 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT?	
Description	This query returns the When selected, add the logical negation (not equal) operator for the operand filter defined at its right. At *RST condition, this value is set to OFF. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig > Not
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the NOT operator. 1, NOT is enabled. 0, NOT is disabled.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:OPER:NOT 2,ON SENS:DATA:TEL:ETH:FMAT:FILT:OPER:NOT? 2 Returns: 1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator?

Description	This query returns the logical operator (AND or OR) between two operands when more than two operands are used. At *RST condition, this value is set to AND. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig > Oper.
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Operator>
Response(s)	Operator: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the logical operators. AND, AND is returned as the logical operator. OR, OR is returned as the logical operator.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:OPER 2,AND SENS:DATA:TEL:ETH:FMAT:FILT:OPER? 2 Returns: AND
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PRECedence	
Description	This command sets the Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PRECedence <wsp><Criterion>, <Precedence>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Operator>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:PREC 2,4 SENS:DATA:TEL:ETH:FMAT:FILT:PREC? 2 Returns: 4
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERVICES?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PRECedence:IPVersion

Description	This command sets the IPv6 Precedence, if the filter type is IPv6Precedence for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:PRECedence:IPVersion <wsp><Criterion>,<Precedence>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the IPv6 Precedence. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Operator>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:PREC:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:PREC:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DSERvices:IPV?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:PRECedence:IPVersion?

Description	This query returns the value of IPv6 Precedence, if the filter type is IPv6Precedence for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:PRECedence:IPVersion? <wsp> <Criterion>,[<Precedence>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no token is specified, the current precedence value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of IPv6 precedence.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:PREC:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:PREC:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:DSERvices:IPV SENSe:DATA:TELeom:ETHernet:STReam:FILTer:DSERvices:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence?

Description	This query returns the value of Precedence, if the filter type is Precedence for a specific Filter Number. At *RST condition, this value is set to 000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence? <wsp><Criterion>,[<Precedence>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Precedence: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Precedence. This parameter is optional. If no token is specified, the current precedence value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Precedence>
Response(s)	Precedence: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of precedence.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:PREC 2,4 SENS:DATA:TEL:ETH:FMAT:FILT:PREC? 2 Returns: 4
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERVICES SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERVICES?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:SOURce:IP	
Description	This command sets the source IP address, if the filter type is IP Address Source for specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:SOURce:IP <wsp> <Criterion>, <Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Source IP address.
Response Syntax	<Precedence>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IP 2,0.1.1.1 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IP? 2 Returns: 0.1.1.1
See Also	SENSe:DATA:TELeom:ETHernet:STReam:FILTer:SOURce:MAC SENSe:DATA:TELeom:ETHernet:STReam:FILTer:SOURce:MAC?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:IP?

Description	This query returns the Source IP address, if the filter type is IP Address Source for specific Filter Number. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:IP? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns source IP address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IP 2,0.1.1.1 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IP? 2 Returns: 0.1.1.1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:MAC?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVe rsion	
Description	This command sets the source IPv6 address, if the filter type is IPv6 Address Source for specific Filter Number. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVersion <wsp><Criterion>,<Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Source IPv6 address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DEST:IPV SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DEST:IPV?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:IPVer
sion?

Description	This query returns the Source IPv6 address, if the filter type is IPv6 Address Source for specific Filter Number. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:IPVersion? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns source IPv6 address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IPV 1, 0000:0000:0000:0000:0000:0000:0000:0000 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DEST:IPV SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:DEST:IPV?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC	
Description	This command sets the Source MAC address, if the filter type is MAC Address Source for specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFIG > Filter CONFIG
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC <wsp><Criterion>,<Address>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Selects the Source MAC address.
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:MAC 2,00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:MAC? 2 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:MAC?	
Description	This query returns the Source MAC address, if the filter type is MAC address Source for a specific Filter Number. At *RST condition, this value is set to 00:00:00:00:00:00. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:MAC? <wsp> <Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<Address>
Response(s)	Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns source MAC address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:MAC 2,00:00:00:FF:FF:FF SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:MAC? 2 Returns: 00:00:00:FF:FF:FF
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:SOURce:IP?

:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:SOURce:TCP	
Description	This command sets the TCP Source Port, if the filter type is TCP Source Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:SOURce:TCP <wsp><Criterion>, <port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Source TCP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, TSOURCE SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:TCP 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELeom:ETHernet:FMATch:FILTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP?

Description	This query returns the TCP source port, if the Filter type is TCP source port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP? <wsp><Criterion>,[<TCP Source Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. TCP Source Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Source TCP Port address. This parameter is optional. If no token is specified, the current Source TCP Port value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault:Default value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns source TCP port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, TSOURCE SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:TCP 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:TCP? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:TCP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP	
Description	This command sets the User Data Protocol (UDP) Source Port, if the filter type is UDP Source Port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP <wsp><Criterion>, <UDP Source Port>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. UDP Source Port: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Source UDP Port address. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:UDP 2,65 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:UDP? 2 Returns: 65
See Also	SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:UDP?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:UDP?

Description	This query returns the User Data Protocol (UDP) source port, if the Filter type is UDP source port for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:SOURce:UDP? <wsp><Criterion>,[<UDP Source Port>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. UDP Source Port: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Source UDP Port address. This parameter is optional. If no token is specified, the current Source UDP Port value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Response(s)	port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns source UDP port address.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:UDP 2,65 SENS:DATA:TEL:ETH:FMAT:FILT:SOUR:UDP? 2 Returns: 65
See Also	SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:DESTination:UDP?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS	
Description	This command sets the Type of Service (TOS) value, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 0000 0000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFIG > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS <wsp> <Criterion>, <Tos>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TOS value. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TOS 2,30 SENS:DATA:TEL:ETH:FMAT:FILT:TOS? 2 Returns: 30
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS:IPVersion

Description	This command sets the IPv6 Type of Service (TOS) value, if the filter type is IPv6TOS for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS:IPVersion <wsp><Criterion>, <Tos>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the IPv6 TOS value. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<port>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TOS:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:TOS:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TOS:IPVersion?	
Description	This query returns the IPv6 Type of Service (TOS) value, if the filter type is IPv6TOS for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Packet Capture > Trigger type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TOS:IPVersion? <wsp><Criterion>,[<Tos>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no token is specified, the current IPv6 TOS value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tos>
Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the IPv6 Type of Service (TOS) value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TOS:IPV 1, 23 SENS:DATA:TEL:ETH:FMAT:FILT:TOS:IPV? 1 Returns: 23
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS?

Description	This query returns the Type of Service (TOS) value, if the filter type is TOS for a specific Filter Number. At *RST condition, this value is set to 0000 0000. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS? <wsp><Criterion>,[<Tos>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Tos: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TOS value. This parameter is optional. If no token is specified, the current TOS value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Tos>
Response(s)	Tos: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Type of Service (TOS) value.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TOS 2,30 SENS:DATA:TEL:ETH:FMAT:FILT:TOS? 2 Returns: 30
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE	
Description	This command selects the type of filter. At *RST condition, this value is set to None. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE <wsp><Criterion>, <Type>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Type: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of filter. NONE: No filter; DMAC: Destination MAC address; SMAC: the Source MAC address; VLANid: C-VLAN ID; VPriority: C-VLAN Priority; VLAN2id: S-VLAN ID; V2Priority: S-VLAN Priority; VLAN3id: E-VLAN ID; V3Priority: E-VLAN Priority; IPDestination: the Destination IP address; IPSource: the IP Source address; TOS: Type of Service (TOS); PRECedence: Precedence; DSErvice: Differentiated Services; UDEstination: UDP Destination port; USource: UDP Source port; ETHertype: Ether Type; IPProtocol: IP Protocol; IPVDESTINATION: IPv6 Destination IP address; IPVSOURCE: IPv6 Source address; IPVFLABEL: IPv6 Flow Label; IPVNHEADER: IPv6 Next Header; IPVDIFFSERV: IPv6 Differentiated Services; IPVPRECEDENCE: IPv6 Precedence; IPTOS: IPv6 Type of Service (TOS); TDEstination: TCP Destination; TSource: TCP Source; FFORMAT: Frame Format; MLABEL1: MPLS Label 1; MLABEL2: MPLS Label 2; MCOS1: MPLS COS 1; MCOS2: MPLS COS 2
Response Syntax	<Tos>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, DMAC SENS:DATA:TEL:ETH:FMAT:FILT:TYPE? 1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE?

Description	This query returns the type of filter. At *RST condition, this value is set to None. Navigation Path: Functions > Packet Capture > Trigger Type > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:TYPE? <wsp><Criterion>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4.
Response Syntax	<FilterType>
Response(s)	FilterType: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the type of filter. NONE: No filter; DMAC: Destination MAC address; SMAC: the Source MAC address; VLANid: C-VLAN ID; VPriority: C-VLAN Priority; VLAN2id: S-VLAN ID; V2Priority: S-VLAN Priority; VLAN3id: E-VLAN ID; V3Priority: E-VLAN Priority; IPDestination: the Destination IP address; IPSource: the IP Source address; TOS: Type of Service (TOS); PREcedence: Precedence; DSErvice: Differentiated Services; UDEstination: UDP Destination port; USource: UDP Source port; ETHertype: Ether Type; IPProtocol: IP Protocol; IPVDESTINATION: IPv6 Destination IP address; IPVSOURCE: IPv6 Source address; IPVFLABEL: IPv6 Flow Label; IPVNHEADER: IPv6 Next Header; IPVDIFFSERV: IPv6 Differentiated Services; IPVPRECEDENCE: IPv6 Precedence; IPTOS, indicates IPv6 Type of Service (TOS); TDESTINATION: TCP Destination; TSOURCE: TCP Source; FFORMAT: Frame Format; MLABEL1: MPLS Label 1; MLABEL2: MPLS Label 2; MCOS1: MPLS COS 1; MCOS2: MPLS COS 2
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:TYPE 1, DMAC SENS:DATA:TEL:ETH:FMAT:FILT:TYPE? 1
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:TYPE?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID	
Description	This command sets the value of VLAN identifier, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID <wsp><Criterion>, <Vlan>, <Id>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN. Vlan stack is always 1 2 3 Id: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Identifier. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<FilterType>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:ID 2,1, 4095 SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:ID? 2,1 Returns: 4095
See Also	SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRiority SENSe:DATA:TELEcom:ETHernet:STReam:FILTer:VLAN:PRiority?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID?

Description	This query returns the value of VLAN ID, if the filter type is VLAN ID for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:ID? <wsp><Criterion>, <Vlan>,[<ID>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN. Vlan stack is always 1 2 3 ID: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the VLAN ID. This parameter is optional. If no token is specified, the current VLAN ID is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<VlanId>

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:ID?

Response(s)	VlanId: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of VLAN identifier.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:ID 2,1, 4095 SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:ID? 2,1 Returns: 4095
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIOrity SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIOrity?

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:PRiority

Description	This command sets the value of VLAN priority, if the filter type is VLAN priority for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:PRiority <wsp><Criterion>, <Vlan>, <Priority>
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN. Vlan stack is always 1 2 3 Priority: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of VLAN Priority. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<VlanId>
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:PRI 2,1, 7 SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:PRI? 2,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:PRiority?	
Description	This query returns the value of Virtual Local Area Network (VLAN) priority, if the filter type is VLAN priority for a specific Filter Number. At *RST condition, this value is set to 0. Navigation Path: Functions > Filters & Packet Capture > Packet Capture > Field Match > CONFig > Filter CONFig
Syntax	:SENSe:DATA:TELEcom:ETHernet:FMATch:FILTer:VLAN:PRiority? <wsp><Criterion>,<Vlan>,[<Priority>]
Parameter(s)	Criterion: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the filter criterion number from 1 to 4. Vlan: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN. Vlan stack is always 1 2 3 Priority: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the VLAN Priority value. This parameter is optional. If no token is specified, the current VLAN Priority value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Priority>

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:PRlorit
y?

Response(s)	Priority: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the value of VLAN priority.
Example(s)	SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:PRI 2,1, 7 SENS:DATA:TEL:ETH:FMAT:FILT:VLAN:PRI? 2,1 Returns: 7
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

GMP

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:CMStatus?	
Description	This query returns the value of RX Cm captured. This query is not associated with any *RST condition. Navigation Path: Functions > GMP > RX Cm
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:CMStatus?[<wsp> <Value>],[<Channel Number or Client ID >]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no value is specified, the current value is returned. MINValue: The minimum value captured. MAXValue: The maximum value captured. Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Cm value captured.
Example(s)	FETC:DATA:TEL:OTN:ODU:GMP:RX:CMST? MAXV
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CMStatus?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:CNDStatus?	
Description	This query returns the value of RX CnD captured. This query is not associated with any *RST condition. Navigation Path: Functions > GMP > RX CnD
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:RX:CNDStatus?[<wsp><Value>],[<Channel Number or Client ID>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no value is specified, the current value is returned. MINValue: The minimum value captured. MAXValue: The maximum value captured. Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the CnD value captured.
Example(s)	FETC:DATA:TEL:OTN:ODU:GMP:RX:CNDStatus? MAXV
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CNDStatus?

:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CMSTatus?	
Description	This query returns the CM status transmitted during the test. GMP is present for the following OTN Multiplexing rates: ODU3(PT=21)/ODU0 or ODU3(PT=21)/ODU0 or ODU3(PT=21)/ODU2 This query is not associated with any *RST condition. Navigation Path: Test > OTN BERT > Functions > GMP
Syntax	:FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CMSTatus? <wsp><CMStatus>,[<Channel Number or Client ID>]
Parameter(s)	CMStatus: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MINValue, displays the minimum CM value transmitted. MAXValue, displays the maximum CM value transmitted. Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the CM status transmitted during the test. MINValue, displays the minimum CM value transmitted. MAXValue displays the maximum CM value transmitted.
Example(s)	FETC:DATA:TEL:OTN:ODU3:GMP:TX:CMST? MAXV
See Also	FETCh:DATA:TELEcom:OTN:ODU[1..n]:GMP:TX:CNDStatus?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CNDStatus?

Description	This query returns the CND status transmitted during the test. GMP is present for the following OTN Multiplexing rates: ODU3(P_T=21)/ODU0 or ODU3(P_T=21)/ODU0 or ODU3(P_T=21)/ODU2 This query is not associated with any *RST condition. Navigation Path: Test > OTN BERT > Functions > GMP
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CNDStatus? <wsp> <CNDStatus>,[<Channel Number or Client ID>]
Parameter(s)	CNDStatus: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MINValue, displays the minimum CND value transmitted. MAXValue, displays the maximum CND value transmitted. Channel Number or Client ID: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the CND status transmitted during the test. MINValue, displays the minimum CND value transmitted. MAXValue displays the maximum CND value transmitted.
Example(s)	FETC:DATA:TEL:OTN:ODU:GMP:TX:CNDStatus? MAXV
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CMStatus?

Client Offset

:FETCh:DATA:TELecom:ETHernet:COFFset:FREQuency?	
Description	This query returns the frequency used for transmission. At *RST condition, this value is device dependent. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Frequency Navigation Path for 1GbE client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Frequency
Syntax	:FETCh:DATA:TELecom:ETHernet:COFFset:FREQuency? <wsp><Frequency Type>
Parameter(s)	Frequency Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Indicates the frequency used for transmission. AFrequency, Indicates the frequency (Nominal fequency + port frequency offset + client frequency offset) used for transmission fo the client signal. NFrequency, Indicates the nominal frequency of the signal.
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frequency value used for transmission.
Example(s)	FETC:DATA:TEL:ETH:COFF:FREQ? AFR
See Also	SENSe:DATA:TELecom:ETHernet:COFFset:FREQuency?

:SENSe:DATA:TELeom:ETHernet:COFFset:CONFig:EFRequency?

Description	This query returns the expected frequency of the input signal in Hz. At *RST condition, this value is 1.249453922 GHz. Navigation Path for Pattern (oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Rx Frequency > Expected Frequency
Syntax	:SENSe:DATA:TELeom:ETHernet:COFFset:CONFig:EFRequency?
Response Syntax	<Efrequency>
Response(s)	Efrequency: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the expected frequency of the input signal.
Example(s)	SENS:DATA:TEL:ETH:COFF:CONF:EFR?
See Also	FETCh:DATA:TELeom:ETHernet:COFFset:FREQuency?

:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysiss:ENABLE	
Description	This command sets the enable and disable status of Frequency Offset Analysis. At *RST condition, this value is set to ON. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Rx Frequency > Frequency Offset Analysis(checkbox)
Syntax	:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysis:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Efrequency>
Example(s)	SENS:DATA:TEL:ETH:COFF:CONF:FOAN:ENAB ON SENS:DATA:TEL:ETH:COFF:CONF:FOAN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABLE

:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysiss:ENABLE?

Description	This query returns the status of Frequency Offset Analysis. At *RST condition, this value is set to ON. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Rx Frequency > Frequency Offset Analysis(checkbox)
Syntax	:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysis:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:ETH:COFF:CONF:FOAN:ENAB ON SENS:DATA:TEL:ETH:COFF:CONF:FOAN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABLE?

:SENSe:DATA:TELEcom:ETHernet:COFFset:FREQuency?	
Description	This query returns the frequency of the input signal At *RST condition, this value is device dependent. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Rx Frequency > Frequency/Offset/MNOFFset/MPOFFset
Syntax	:SENSe:DATA:TELEcom:ETHernet:COFFset:FREQuency? <wsp><Frequency Type>
Parameter(s)	Frequency Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Returns the frequency of the input signal in bps. FREQuency, Frequency Offset indicates the offset between the expected rate specification and the rate of the input signal. FOFFset, Offset Unit allows the selection of the frequency offset unit. Choices are bps and ppm. The default setting is pm. MNOFFset, Max. Negative Offset indicates the offset between the expected rate specification and the smallest rate recorded from the received signal. MPOFFset, Max. Positive Offset indicates the offset between the expected rate specification and the largest rate recorded from the received signal.
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frequency of the input signal in bps. FREQuency, Frequency Offset indicates the offset between the expected rate specification and the rate of the input signal. FOFFset, Offset Unit allows the selection of the frequency offset unit. Choices are bps and ppm. The default setting is pm. MNOFFset, Max. Negative Offset indicates the offset between the expected rate specification and the smallest rate recorded from the received signal. MPOFFset, Max. Positive Offset indicates the offset between the expected rate specification and the largest rate recorded from the received signal.
Example(s)	SENS:DATA:TEL:ETH:COFF:FREQ? FOFF
See Also	SENSe:DATA:TELEcom:ETHernet:COFFset:CONFig:EFRequency?

:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABle

Description	This command allows to enable the frequency offset measurements. At *RST condition, this value is set to OFF. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset(checkbox) Navigation Path for 1GbE client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset(checkbox)
Syntax	:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:ETH:COFF:FREQ:ENAB ON SOUR:DATA:TEL:ETH:COFF:FREQ:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FSTRucture:ENABLE

:SOURce:DATA:TELEcom:ETHernet:COFFset:FREQuency:ENABle?

Description	This command returns the status of the frequency offset measurements. At *RST condition, this value is set to OFF. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset(checkbox) Navigation Path for 1GbE client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset(checkbox)
Syntax	:SOURce:DATA:TELEcom:ETHernet:COFFset:FREQuency:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:COFF:FREQ:ENAB ON SOUR:DATA:TEL:ETH:COFF:FREQ:ENAB? Returns: 1
See Also	SOURce:DATA:TELEcom:OTN:FSTRucture:ENABLE?

:SOURce:DATA:TELEcom:ETHernet:COFFset:FREQuency:OFFSet

Description	This command allows entering a positive or a negative client frequency offset in ppm. At *RST condition, this value is set to 0. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset value Navigation Path for 1GbE client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset
Syntax	:SOURce:DATA:TELEcom:ETHernet:COFFset:FREQuency:OFFSet <wsp><CFO>
Parameter(s)	CFO: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. This parameter is optional. If no token is specified, the current client frequency offset is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:COFF:FREQ:OFFS 55 SOUR:DATA:TEL:ETH:COFF:FREQ:OFFS? Returns: 55
See Also	SOURce:DATA:TELEcom:OTN:ERRor:OTU[1..n]:AMOUNT

:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:OFFSet?	
Description	This command returns a positive or a negative client frequency offset in ppm. At *RST condition, this value is set to 0. Navigation Path for Pattern(oduflex mapping) client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset value Navigation Path for 1GbE client: Test(OTN Bert) > Functions > Client Offset > Tx Frequency > Offset
Syntax	:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:OFFSet?[<wsp><CFO>]
Parameter(s)	CFO: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Allows entering a positive or a negative client frequency offset in ppm. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<CFO>
Response(s)	CFO: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the entered positive or a negative client frequency offset in ppm.
Example(s)	SOUR:DATA:TEL:ETH:COFF:FREQ:OFFS 55 SOUR:DATA:TEL:ETH:COFF:FREQ:OFFS? Returns: 55
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOUnt?

Traffic Scan

:FETCh:DATA:TELecom:TSCan:DISCovered?

Description	This query returns the current number of monitored traffic flows discovered value. Navigation Path: Functions > Traffic Scan > Discovered
Syntax	:FETCh:DATA:TELecom:TSCan:DISCovered?
Response Syntax	<Discovered>
Response(s)	Discovered: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of discovered value.
Example(s)	FETC:DATA:TEL:TSC:DISC?
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELEcom:TSCan:LINK:RATE?	
Description	This query returns the link rate. Navigation Path: Functions > Traffic Scan > Link Rate
Syntax	:FETCh:DATA:TELEcom:TSCan:LINK:RATE? <wsp> <Rate Layer>
Parameter(s)	Rate Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Link Rate the VLAN Scan. EBANDWIDTH: Ethernet Bandwidth. LUTILIZATION: Line Utilization.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the VLAN link rate of traffic scan.
Example(s)	FETC:DATA:TEL:TSC:LINK:RATE? LUTILIZATION
See Also	FETCh:DATA:TELEcom:TSCan:STATistics:RATE:TOTal?

:FETCh:DATA:TELEcom:TSCan:LIST?

Description	This query returns all the output values as per the selection. Navigation Path: Functions > Traffic Scan > E-VLAN, S-VALN, C-VLAN and Statistics Table
Syntax	:FETCh:DATA:TELEcom:TSCan:LIST? <wsp> <Rate Layer>,[<Stream number>]
Parameter(s)	Rate Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts The Traffic Scan. Received List of scan as per below selection for rate. EBANDWIDTH: Ethernet Bandwidth. LUTILIZATION: Line Utilization. Stream number: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. If Stream number is not provided, then the entire Vlan list is returned and if it is provided then particular stream row is returned.
Response Syntax	<List>
Response(s)	List: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Complete List of traffic scan.
Example(s)	FETC:DATA:TEL:TSC:LIST? LUTILIZATION, 1
See Also	FETCh:DATA:TELEcom:LOGGer:LIST?

:FETCh:DATA:TELecom:TSCan:LREached:STATus?	
Description	This query returns the status of when resource limit is reached, new traffic flows are no longer created in the discovery results. Navigation Path: Functions > Traffic Scan > Limit Reached
Syntax	:FETCh:DATA:TELecom:TSCan:LREached:STATus?
Response Syntax	<Lreached>
Response(s)	Lreached: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the VLAN Status of Limit Reached.
Example(s)	FETC:DATA:TEL:TSC:LRE:STAT?
See Also	FETCh:DATA:TELecom:FIBer:LINK?

:FETCh:DATA:TELEcom:TSCan:STATistics:FCOunt:TOTal?

Description	This query returns total frame count. Navigation Path: Functions > Traffic Scan > Total Frame Count
Syntax	:FETCh:DATA:TELEcom:TSCan:STATistics:FCOunt:TOTal?
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total Frame count of traffic scan.
Example(s)	FETC:DATA:TEL:TSC:STAT:FCO:TOT?
See Also	FETCh:DATA:TELEcom:TSCan:STATistics:RATE:TOTal?

:FETCh:DATA:TELEcom:TSCan:STATistics:RATE:TOTal?	
Description	This query returns total rate count. Navigation Path: Functions > Traffic Scan > Total Rate
Syntax	:FETCh:DATA:TELEcom:TSCan:STATistics:RATE:TOTal? <wsp> <Rate Layer>
Parameter(s)	Rate Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Total Receive Rate. EBANDWIDTH: Ethernet Bandwidth. LUTILIZATION: Line Utilization.
Response Syntax	<Rate>
Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the total Frame rate of traffic scan.
Example(s)	FETC:DATA:TEL:TSC:STAT:RATE:TOTal? LUTILIZATION
See Also	FETCh:DATA:TELEcom:TSCan:LINK:RATE?

:SOURce:DATA:TELEcom:TSCan:LEVel:TYPE

Description	This command selects the criteria used to filter the incoming VLAN traffic flows. At *RST, this value is set to ALL. Navigation Path: Functions > Traffic Scan > Level
Syntax	:SOURce:DATA:TELEcom:TSCan:LEVel:TYPE <wsp> <Level>
Parameter(s)	Level: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the level type. ALL, all staked VLAN CVLAN, C-VLAN EVLAN, E-VLAN SVLAN, S-VLAN UNTagged, no VLAN
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:TSC:LEV:TYPE EVLAN
See Also	SOURce:DATA:TELEcom:PATtern:TYPE SOURce:DATA:TELEcom:TSCan:LEVel:TYPE?

:SOURce:DATA:TELecom:TSCan:LEVel:TYPE?	
Description	This query returns the selected Level. At *RST, this value is set to ALL. Navigation Path: Functions > Traffic Scan > Level
Syntax	:SOURce:DATA:TELecom:TSCan:LEVel:TYPE?
Response Syntax	<Level>
Response(s)	Level: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the level of traffic scan. ALL, all staked VLAN CVLAN, C-VLAN EVLAN, E-VLAN SVLAN, S-VLAN UNTagged, no VLAN
Example(s)	SOUR:DATA:TEL:TSC:LEV:TYPE?
See Also	SOURce:DATA:TELecom:PATtern:TYPE? SOURce:DATA:TELecom:TSCan:LEVel:TYPE

:SOURce:DATA:TELecom:TSCan:SCAN:ENABLE

Description	This command allows start the scanning according to the configuration. At *RST, this value is set to Disabled. Navigation Path: Functions > Traffic Scan > Scan
Syntax	:SOURce:DATA:TELecom:TSCan:SCAN:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Level>
Example(s)	SOUR:DATA:TEL:TSC:SCAN:ENAB 1
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABLE?

:SOURce:DATA:TELecom:TSCan:SCAN:ENABle?	
Description	This query returns the scanning status. At *RST, this value is set to Disabled. Navigation Path: Functions > Traffic Scan > Scan
Syntax	:SOURce:DATA:TELecom:TSCan:SCAN:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:TSC:SCAN:ENABle?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

S-OAM Link Trace

:FETCh:DATA:TELeom:SOAM:LINK:TRACe:RESult:INValid:LTR?

Description	This query returns the Link Trace Results Invalid LTR. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Invalid LTR
Syntax	:FETCh:DATA:TELeom:SOAM:LINK:TRACe:RESult:INValid:LTR?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the invalid LTR count.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:RESult:INValid:LTR?
See Also	FETCh:DATA:TELeom:SOAM:FDElay:FAILED:COUNT:VERD?

:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESult:LTR:TIMEout?	
Description	This query returns the Link Trace Results LTR TimeOut. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > LTR Time Out
Syntax	:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESult:LTR:TIMEout?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the LTR Timeout count.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:RESult:LTR:TIMEout?
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:MINimum:DElay?

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?

Description	This query returns the Link Trace Results LTR value. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > RX LTR
Syntax	:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Rx LTR count.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:RESult:RX:LTR?
See Also	FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNT:VERD?

:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?	
Description	This query returns the Link Trace Results LTM value. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > TX LTM
Syntax	:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Tx LTM count.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:RESult:TX:LTM?
See Also	FETCh:DATA:TELecom:SOAM:FDElay:CURRent:DElay?

:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESult?

Description	This query returns the Link Trace Results (TTL+MEP/MIP MAC Address+Forward+Term MEP). At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Result
Syntax	:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:RESult? <wsp> <value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select row index of result table
Response Syntax	<Result>
Response(s)	Result: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected row result.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:RESult? 0 Returns: 1st row value from result table.
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:STATus?

:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:STATus?	
Description	This query returns the Last link trace status. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Status
Syntax	:FETCh:DATA:TELEcom:SOAM:LINK:TRACe:STATus?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Last Link trace status. PENDING, status as pending. SUCCESSFUL, status as successful. LTRTIMEOUT, status as LTR timeout. INVALIDLTR, status as invalid LTR. IDLE, status as idle.
Example(s)	FETC:DATA:TEL:SOAM:LINK:TRACe:STATus?
See Also	FETCh:DATA:TELEcom:SOAM:FDElay:MAXimum:DElay?

:SENSe:DATA:TELeom:SOAM:LINK:TRACe:DROPeLIGible

Description	This command sets the Drop Eligible Yes/No. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Drop Eligible
Syntax	:SENSe:DATA:TELeom:SOAM:LINK:TRACe:DROPeLIGible <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the status of Drop Eligible. YES NO
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:DROPeLIGible YES SENS:DATA:TEL:SOAM:LINK:TRACe:DROPeLIGible? Returns: YES
See Also	FETCh:DATA:TELeom:SOAM:TRAF:TX:TOTal?

:SENSe:DATA:TELeom:SOAM:LINK:TRACe:DROP:ELIGible?	
Description	This query returns the Drop Eligible Yes/No. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Drop Eligible
Syntax	:SENSe:DATA:TELeom:SOAM:LINK:TRACe:DROP:ELIGible?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the status of Drop Eligible. YES, selected as YES NO, selected as NO
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:DROP:ELIGible YES SENS:DATA:TEL:SOAM:LINK:TRACe:DROP:ELIGible? Returns: YES
See Also	FETCh:DATA:TELeom:SOAM:TRAF:RX:TOTal?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle

Description	This command sets the Link trace Enable/Disable. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Link Trace
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle[<wsp><Status>]
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:ENABle ON SENS:DATA:TEL:SOAM:LINK:TRACe:ENABle? Returns: 1
See Also	FETCh:DATA:TELecom:SOAM:TRAF:RESPonder:TX:TOTal?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle?	
Description	This query returns the Link trace Enable/Disable. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Link Trace
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:ENABle ON SENS:DATA:TEL:SOAM:LINK:TRACe:ENABle? Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:RESponder:RX:TOTal?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority

Description	This command sets the Link Trace Priority. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Priority
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority <wsp> <value>
Parameter(s)	value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the priority. 0: the priority 0 1: the priority 1 2: the priority 2 3: the priority 3 4: the priority 4 5: the priority 5 6: the priority 6 7: the priority 7
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:PRiority 2 SENS:DATA:TEL:SOAM:LINK:TRACe:PRiority? Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:COUNT?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority?	
Description	This query returns the Link Trace Priority. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > Priority
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRiority?[<wsp> <Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the priority. 0: the priority 0 1: the priority 1 2: the priority 2 3: the priority 3 4: the priority 4 5: the priority 5 6: the priority 6 7: the priority 7
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the priority.
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:PRiority 2 SENS:DATA:TEL:SOAM:LINK:TRACe:PRiority? Returns: 2
See Also	FETCH:DATA:TELecom:SOAM:TRAF:RX:COUNT?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL

Description	This command sets the Time to Live (TTL) value. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > TTL
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL[<wsp><TTL>]
Parameter(s)	TTL: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the TTL. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:TTL 5 SENS:DATA:TEL:SOAM:LINK:TRACe:TTL? Returns: 5
See Also	FETCH:DATA:TELecom:SOAM:TRAF:RESPonder:TX:COUNT?

:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL?	
Description	This query returns the Time to Live (TTL) value. At *RST condition, this value is device dependent. Navigation Path: Functions > S-OAM Link Trace > TTL
Syntax	:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL?[<wsp><TTL>]
Parameter(s)	TTL: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the TTL. This parameter is optional. If no token is specified, the current TTL value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TTL.
Example(s)	SENS:DATA:TEL:SOAM:LINK:TRACe:TTL 5 SENS:DATA:TEL:SOAM:LINK:TRACe:TTL? Returns: 5
See Also	FETCh:DATA:TELecom:SOAM:TRAF:RESponder:RX:COUNT?

Signaling Bits

:FETCh:DATA:TELEcom:DSN:SIGNAlbit:VALue?

Description	This query returns signaling bit values. At *RST condition, this value is set to 10. Navigation Path: Functions > Signaling Bits > RX
Syntax	:FETCh:DATA:TELEcom:DSN:SIGNAlbit:VALue? <wsp> <Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the channel no Range is from 1 To 24
Response Syntax	<Bitvalue>
Response(s)	Bitvalue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Signaling Bit Value
Example(s)	FETC:DATA:TEL:DSN:SIGNAlbit:VALues? 1
See Also	SOURce:DATA:TELEcom:DSN:FEAC SOURce:DATA:TELEcom:DSN:FEAC:MANual:CODEword SOURce:DATA:TELEcom:DSN:FEAC:MANual:AMOUNT? SOURce:DATA:TELEcom:DSN:FEAC:MANual:INJect

:FETCh:DATA:TELEcom:PDH:SIGNalbit:VALue?	
Description	This query returns signaling bit values in PDH. At *RST condition, this value is set to 10. Navigation Path: Functions > Signaling Bits > RX
Syntax	:FETCh:DATA:TELEcom:PDH:SIGNalbit:VALue? <wsp> <Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the channel number Range is from 1 To 30
Response Syntax	<Bitvalue>
Response(s)	Bitvalue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Signaling Bit Value.
Example(s)	FETC:DATA:TEL:PDH:SIGN:VAL? 1
See Also	FETCh:DATA:TELEcom:DSN:SIGNalbit:VALues?

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent

Description	This command sets the Tx Signaling Bits content for the given channel number. At *RST condition, this value is set to 15. Navigation Path: Functions> Signaling Bits > TX Signaling - Channel (1 - 24)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent <wsp><DS0 Chanel>, <Signaling Bits Content>
Parameter(s)	DS0 Chanel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the DS0 Chanel for Signaling Bits content. Choices are 1 through 24. Signaling Bits Content: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value for the Signaling Bits content. Choices are 0 through 15.
Response Syntax	<Bitvalue>
Example(s)	SOUR:DATA:TEL:DS100:SIGN:CONT 1,0
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent?	
Description	This query returns theTx Signaling Bits content for the given channel number. At *RST condition, this value is set to 15 Navigation Path: Functions> Signaling Bits > TX Signaling - Channel (1 - 24)
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent? <wsp><DS0 Chanel>
Parameter(s)	DS0 Chanel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Gets the DS0 Chanel for Signaling Bits content. Choices are 1 through 24.
Response Syntax	<DS0 Signaling Bits Content>
Response(s)	DS0 Signaling Bits Content: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of DS0 Tx Signaling Bits Content. The values are 0 to 15
Example(s)	SOUR:DATA:TEL:DS100:SIGN:CONT 1,0 SOUR:DATA:TEL:DS100:SIGN:CONT? 1 Returns: 0
See Also	SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent?

:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:MODE

Description	This command sets the DS0 Tx Signaling Mode for all Channel At *RST condition, this value is set to 16 States Navigation Path: Functions> Signaling Bits > TX Signaling - Signaling Mode
Syntax	:SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:MODE <wsp><DS0 Tx Signaling Mode>
Parameter(s)	DS0 Tx Signaling Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the DS0 Tx Signaling Mode for all channels. 2_STATES allows the following values {00,11} under SF or SLC-96 and {0000,1111} in ESF 4_STATES allows the following values {00,01,10,11} under SF or SLC-96 and {0000,0101,1010,1111} in ESF 16_STATES available under ESF only, allows the 16 values between 0000 (0x0) and 1111(0xF)
Response Syntax	<DS0 Signaling Bits Content>
Example(s)	SOUR:DATA:TEL:DS100:SIGN:MODE 2_STATES
See Also	SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:MODE

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:MODE?	
Description	This query returns the DS0 Tx Signaling Mode for all Channel At *RST condition, this value is set to 16 States Navigation Path: Functions> Signaling Bits > TX Signaling - Signaling Mode
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:MODE?
Response Syntax	<DS0 Tx Signaling Mode>
Response(s)	DS0 Tx Signaling Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns DS0 Tx Signaling Mode
Example(s)	SOUR:DATA:TEL:DS100:SIGN:MODE 4_STATES SOUR:DATA:TEL:DS100:SIGN:MODE? Returns: 4_STATES
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:MODE?

:SOURce:DATA:TELecom:E[1..n]:SIGNaling:CONTent

Description	This command sets the TX Signaling Bits content for the given channel number in PDH. At *RST condition, this value is set to 15. Navigation Path: Functions> Signaling Bits > TX Signaling - Channel (1 - 30)
Syntax	:SOURce:DATA:TELecom:E[1..n]:SIGNaling:CONTent <wsp><E0 Channel>, <Signaling Bits Content>
Parameter(s)	E0 Chanel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the E0 Channel for Signaling Bits content. Choices are 1 through 30. Signaling Bits Content: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value for the Signaling Bits content. Choices are 0 through 15.
Response Syntax	<DS0 Tx Signaling Mode>
Example(s)	SOUR:DATA:TEL:E100:SIGN:CONT 1,0
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent

:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:CONTent?	
Description	This query returns the TX Signaling Bits content for the given channel number in PDH. At *RST condition, this value is set to 15 Navigation Path: Functions> Signaling Bits > TX Signaling - Channel (1 - 30)
Syntax	:SOURce:DATA:TELEcom:E[1..n]:SIGNaling:CONTent? <wsp><E0 Chanel>
Parameter(s)	E0 Chanel: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Gets the E0 Channel for Signaling Bits content. Choices are 1 through 30.
Response Syntax	<E0 Signaling Bits Content>
Response(s)	E0 Signaling Bits Content: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of E0 TX Signaling Bits Content. The values are 0 to 15
Example(s)	SOUR:DATA:TEL:E100:SIGN:CONT 1,0 SOUR:DATA:TEL:E100:SIGN:CONT? 1 Returns: 0
See Also	SOURce:DATA:TELEcom:DS[1..n]:SIGNaling:CONTent?

OH BERT

:FETCh:DATA:TELEcom:OTN:GCC:ALARm:CURRent?

Description	This query returns the current status of the OH BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx - Alarm
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ALARm:CURRent? <wsp> <Channel>, <Alarm>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the OH BERT alarm. PLOSs: BERT Mode SYNCSTATUS: SYNC Mode

:FETCh:DATA:TELecom:OTN:GCC:ALARm:CURRent?	
Response Syntax	<Current>
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of the OH BERT. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:GCC:ALARm:CURR? GCC0, PLOS
See Also	FETCh:DATA:TELecom:OTN:GCC:ALARm:CURRent?

:FETCh:DATA:TELEcom:OTN:GCC:ALARm:HISTory?

Description	This query returns the history status of the OH BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx - Alarms
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ALARm:HISTory? <wsp><Channel>, <Alarm>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the OH BERT. PLOSs: BERT Mode SYNCSTATUS: SYNC Mode
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:GCC:ALARm:HISTory?	
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of the OH BERT. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:GCC:ALARm:HIST? GCC0, PLOS
See Also	FETCh:DATA:TELecom:OTN:GCC:ALARm:HISTory?

:FETCh:DATA:TELecom:OTN:GCC:ALARm:PATtern?

Description	This query returns the current status of the GCC live pattern. At *RST condition, this value is set to device-dependent. Navigation Path: Test > Functions > OH BERT > OTUx/ODUx - Pattern status
Syntax	:FETCh:DATA:TELecom:OTN:GCC:ALARm:PATtern? <wsp><Channel>, <Alarm>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the GCC live pattern. PLOSs
Response Syntax	<Current>

:FETCh:DATA:TELecom:OTN:GCC:ALARm:PATtern?	
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of the GCC live pattern. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:GCC:ALARm:PATT? GCC0, PLOS
See Also	FETCh:DATA:TELecom:OTN:GCC:ALARm:PATtern?

:FETCh:DATA:TELecom:OTN:GCC:ALARm:SEConds?

Description	This query returns the number of seconds within which the GCC alarm occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx - Alarm
Syntax	:FETCh:DATA:TELecom:OTN:GCC:ALARm:SEConds? <wsp><Channel>, <Alarm>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Alarm: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the GCC alarm. PLOSs
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:OTN:GCC:ALARm:SEConds?	
Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in which the GCC alarm is occurred.
Example(s)	FETC:DATA:TEL:OTN:GCC:ALARm:SEC? GCC0, PLOS
See Also	FETCh:DATA:TELecom:OTN:GCC:ALARm:SEConds?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:COUNT?

Description	This query returns the count of the OH BER At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx - Error
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ERRor:COUNT? <wsp><Channel>, <Error>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the GCC error. BIT: BERT Mode
Response Syntax	<Count>

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:COUNT?	
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of the GCC error.
Example(s)	FETC:DATA:TEL:OTN:GCC:ERRor:COUN? GCC0, BIT
See Also	FETCh:DATA:TELEcom:OTN:GCC:ERRor:COUNT?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:CURRent?

Description	This query returns the current status of the OH BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx - Error
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ERRor:CURRent? <wsp><Channel>, <Error>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the OH BERT error. BIT: BERT Mode
Response Syntax	<Current>

:FETCh:DATA:TELecom:OTN:GCC:ERRor:CURRent?	
Response(s)	Current: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current status of the OH BERT error. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:GCC:ERRor:CURR? GCC0, BIT
See Also	FETCh:DATA:TELecom:OTN:GCC:ERRor:CURRent?

:FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory?

Description	This query returns the history status of the OH BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Test > Functions > OH BERT > OTUx/ODUx- Error
Syntax	:FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory? <wsp><Channel>, <Error>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the OH BERT error. BIT: BERT Mode
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory?	
Response(s)	History: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of the OH BERT error. PRESENT, indicates that at least one alarm has occurred. ABSENT, indicates that no alarm occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:GCC:ERRor:HIST? GCC0, BIT
See Also	FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:RATE?

Description	This query returns the rate value of the OH BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Test > Functions > OH BERT > OTUx/ODUx - Error
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ERRor:RATE? <wsp><Channel>, <Error>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the GCC error. BIT: BERT Mode
Response Syntax	<Rate>

:FETCh:DATA:TELeom:OTN:GCC:ERRor:RATE?

Response(s)	Rate: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate value of the GCC error.
Example(s)	FETC:DATA:TEL:OTN:GCC:ERRor:RATE? GCC0, BIT
See Also	FETCh:DATA:TELeom:OTN:GCC:ERRor:RATE?

:FETCh:DATA:TELEcom:OTN:GCC:ERRor:SEConds?

Description	This query returns the number of seconds within which the OH BERT occurred. At *RST condition, this value is set to device-dependent. Navigation Path: Test > Functions > OH BERT > OTUx/ODUx- Error
Syntax	:FETCh:DATA:TELEcom:OTN:GCC:ERRor:SEConds? <wsp><Channel>, <Error>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Error: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of the GCC error. BIT: BERT Mode
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:OTN:GCC:ERRor:SEConds?

Response(s)	Seconds: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in which the GCC error is occured.
Example(s)	FETC:DATA:TEL:OTN:GCC:ERR:SEC? GCC0, BIT
See Also	FETCh:DATA:TELecom:OTN:GCC:ERRor:SEConds?

:SOURce:DATA:TELEcom:OTN:GCC:ENable

Description	This command enables/disables the OTUx/ODUx OH group. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH BERT > OTUx/ODUx
Syntax	:SOURce:DATA:TELEcom:OTN:GCC:ENable <wsp><Group>, <Status>
Parameter(s)	Group: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 Status: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables

:SOURce:DATA:TELecom:OTN:GCC:ENAbLe	
Response Syntax	<Seconds>
Example(s)	SOUR:DATA:TEL:OTN:GCC:ENA GCC0, ON
See Also	SOURce:DATA:TELecom:OTN:GCC:ENAbLe

:SOURce:DATA:TELeom:OTN:GCC:ENAbLe?

Description	This query returns the state of the OTUx/ODUx OH group. At *RST condition, this value is set to device-dependent. Navigation Path: Functions >OH BERT > OTUx/ODUx
Syntax	:SOURce:DATA:TELeom:OTN:GCC:ENAbLe? <wsp><Group>
Parameter(s)	Group: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6
Response Syntax	<Status>

:SOURce:DATA:TELecom:OTN:GCC:ENAbLe?	
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:GCC:ENA? GCC0
See Also	SOURce:DATA:TELecom:OTN:GCC:ENAbLe?

:SOURce:DATA:TELecom:OTN:GCC:ERRor:MANual:INJect

Description	This command injects an error on the OH BER. Navigation Path: Functions > OH BERT > OTUx/ODUx Bit Error - Inject
Syntax	:SOURce:DATA:TELecom:OTN:GCC:ERRor:MANual:INJect <wsp> <Channel>
Parameter(s)	Channel: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the OH Group in OH BERT. APSPCC: APS/PCC EXP: EXP FTFL: FTFL GCC0: GCC0 GCC1: GCC1 GCC2: GCC2 PMTCM: PM&TCM RESODU: RES(ODU) RESOTU: RES(OTU) TCMACT: TCM ACT TCM1: TCM1 TCM2: TCM2 TCM3: TCM3 TCM4: TCM4 TCM5: TCM5 TCM6: TCM6 GCCALL: All Groups
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:GCC:ERR:MAN:INJ GCC0
See Also	SOURce:DATA:TELecom:OTN:GCC:ERRor:MANual:INJect

:SOURce:DATA:TELEcom:OTN:GCC:MODE	
Description	This command configures the OH BERT/SYNC mode. At *RST condition, this value is set to BERT. Navigation Path: Functions > OH BERT
Syntax	:SOURce:DATA:TELEcom:OTN:GCC:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. OH BERT/SYNC mode OHBERTMODE: BERT OHSYNCMODE: SYNC
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:GCC:MOD OHBERTMODE

:SOURce:DATA:TELecom:OTN:GCC:MODE?

Description	This query returns the configuration of OH BERT/SYNC mode. At *RST condition, this value is set to BERT. Navigation Path: Functions > OH BERT
Syntax	:SOURce:DATA:TELecom:OTN:GCC:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. OH BERT/SYNC mode OHBERTMODE: BERT OHSYNCMODE: SYNC
Example(s)	SOUR:DATA:TEL:OTN:GCC:MOD? Returns OHBERTMODE

:SOURce:DATA:TELEcom:OTN:GCC:OBERT	
Description	This command enables/disables the OH BERT/SYNC generation and monitoring. At *RST condition, this value is device-dependent. Navigation Path: Functions > OH BERT
Syntax	:SOURce:DATA:TELEcom:OTN:GCC:OBERT <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:GCC:OBER ON

:SOURce:DATA:TELecom:OTN:GCC:OBERT?

Description	This query returns enable/disable status of OH BERT At *RST condition, this value is set to device-dependent. Navigation Functions > OH BERT
Syntax	:SOURce:DATA:TELecom:OTN:GCC:OBERT?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:GCC:OBER?

:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity	
Description	This command set the pattern polarity of all GCC channels. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT / OTN SONET/SDH BERT > Functions > GCC BERT > Invert PRBS15 Pattern
Syntax	:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity <wsp><Polarity>
Parameter(s)	Polarity: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the pattern polarity. NINVerted: Non-inverted. INVerted: Inverted.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:GCC:PAT:POL INV
See Also	SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity

:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity?

Description	This query returns the pattern polarity of all GCC channels. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT / OTN SONET/SDH BERT > Functions > GCC BERT > Invert PRBS15 Pattern
Syntax	:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the pattern polarity of all GCC channels. NINVerted, indicates the polarity as non-inverted. INVerted, indicates the polarity as inverted.
Example(s)	SOUR:DATA:TEL:OTN:GCC:PAT:POL?
See Also	SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity?

:SOURce:DATA:TELecom:OTN:GCC:RESet	
Description	This command resets all OH BERT statistics. Navigation Navigation Path: Functions > OH BERT - Reset
Syntax	:SOURce:DATA:TELecom:OTN:GCC:RESet
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:GCC:RESet
See Also	SOURce:DATA:TELecom:OTN:GCC:RESet

FlexE/FlexO Advanced

:FETCh:DATA:TELecom:FETHernet:GROUp:PNUMber:RX?

Description	This command queries the received PHY Number associated for a specific port, test running or not. Navigation Path: Functions > FlexE Advanced > RX > PHY
Syntax	:FETCh:DATA:TELecom:FETHernet:GROUp:PNUMber:RX? <wsp><PortId>
Parameter(s)	PortId: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the port number on which to query the FlexE PHY Number. P1 or PORT1: Port 1 P2 or PORT2: Port 2 P3 or PORT3: Port 3 P4 or PORT4: Port 4 A1 : Port A1 A2 : Port A2 B1 : Port B1 B2 : Port B2
Response Syntax	<PhyNumber>
Response(s)	PhyNumber: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received PHY Number associated with the specified port. Value Range: 1 to 254
Example(s)	FETC:DATA:TEL:FETH:GRO:PNUM:RX? P1 Returns: 10 (for example, if the received PHY Number is 10)
See Also	SOURce:DATA:TELecom:FETHernet:GROUo:PNUMber SOURce:DATA:TELecom:FETHernet:GROUp:PNUMber?

:FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX?	
Description	This query gets the received FlexE PHY skew delay value for a given PHY part of the test. The reference is the first arrived PHY, part of the test. Navigation Path: Functions > FlexE Advanced > RX Skew (ns)
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX? <wsp> <PhyNumber>
Parameter(s)	PhyNumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. The PHY number on which to get the received skew delay value.
Response Syntax	<ReceivedSkewDelay>
Response(s)	ReceivedSkewDelay: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FlexE PHY skew delay value in nanosecond. The reference is the first arrived PHY, part of the test.
Example(s)	FETCh:DATA:TEL:FLEXE:PHY:SKEW:RX 1 Returns: 23
See Also	SOURce:DATA:TELecom:FETHernet:PHY:THReshold SOURce:DATA:TELecom:FETHernet:PHY:THReshold? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

:FETCh:DATA:TELEcom:FOTN:INSTance:SKEW:RX?

Description	This query gets the received FlexO Instance skew delay value for a given Instance part of the test. The reference is the first arrived FlexO Instance, part of the test. Navigation Path: Functions > FlexO Advanced > RX Skew (ns) Navigation Path: Summary > Skew (ns)
Syntax	:FETCh:DATA:TELEcom:FOTN:INSTance:SKEW:RX? <wsp> <Instance ID>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID from which to get the received skew delay value.
Response Syntax	<ReceivedSkewDelay>
Response(s)	ReceivedSkewDelay: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FlexO Instance skew delay value in nanosecond. The reference is the first arrived FlexO Instance, part of the test.
Example(s)	FETC:DATA:TEL:FOTN:INST:SKEW:RX? 123 Returns: 45
See Also	SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX? SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX:RESet SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold?

:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold	
Description	This command sets the FlexE Excessive PHY Skew alarm threshold. At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexE Advanced > PHY Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold <wsp> <SkewAlarmThreshold>
Parameter(s)	SkewAlarmThreshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of the Excessive PHY Skew alarm threshold in nanosecond. MINimum: To set the minimum Excessive PHY Skew alarm threshold MAXimum: To set the maximum Excessive PHY Skew alarm threshold
Response Syntax	<ReceivedSkewDelay>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:THR 100 SOUR:DATA:TEL:FETH:PHY:SKEW:THR? Returns: 100
See Also	SOURce:DATA:TELecom:FETHernet:PHY:THReshold? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

**:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold:RE
Set**

Description	This command resets the FlexE Excessive PHY Skew alarm threshold to its default value. At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexE Advanced > PHY Skew Alarm Threshold > Default
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold:RESet
Response Syntax	<ReceivedSkewDelay>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:THR:RES SOUR:DATA:TEL:FETH:PHY:SKEW:THR? Returns: 300
See Also	SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold?

:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold?	
Description	This query gets the FlexE Excessive PHY Skew alarm threshold configured value, At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexE Advanced > PHY Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. When not specified, returns the configured Excessive PHY Skew alarm threshold value. MINimum: Returns the minimum value that can be configured. MAXimum: Returns the maximum value that can be configured.
Response Syntax	<ThresholdValue>
Response(s)	ThresholdValue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the configured Excessive PHY Skew alarm threshold value or the minimum/maximum value when the corresponding parameter is used.
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:THR 100 SOUR:DATA:TEL:FETH:PHY:SKEW:THR? Returns: 100
See Also	SOURce:DATA:TELecom:FETHernet:PHY:THReshold SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

:SOURce:DATA:TELeom:FOTN:INSTance:SKEW:THReshold

Description	This command sets the FlexO instance Skew alarm threshold. At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexO Advanced > Instance Skew Alarm Threshold (ns) Navigation Path: Results > Alarms/Errors > FlexO Group > Alarms > Instance Skey Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELeom:FOTN:INSTance:SKEW:THReshold <wsp> <SkewAlarmThreshold>
Parameter(s)	SkewAlarmThreshold: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the value of the Excessive Instance Skew alarm threshold in nanosecond. MINimum: To set the minimum Excessive Instance Skew alarm threshold MAXimum: To set the maximum Excessive Instance Skew alarm threshold
Response Syntax	<ThresholdValue>
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:THR 100 SOUR:DATA:TEL:FOTN:INST:SKEW:THR? Returns: 100
See Also	SOURce:DATA:TELeom:FOTN:INSTance:SKEW:THReshold? SOURce:DATA:TELeom:FOTN:INSTance:SKEW:TX:RESet FETCh:DATA:TELeom:FOTN:INSTance:SKEW:RX? SOURce:DATA:TELeom:FOTN:INSTance:SKEW:TX SOURce:DATA:TELeom:FOTN:INSTance:SKEW:TX?

:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold:RESet	
Description	This command resets the FlexO Excessive Instance Skew alarm threshold to its default value. At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexO Advanced > Instance Skew Alarm Threshold > Default Navigation Path: Results > Alarms/Errors > FlexO Group > Alarms > Instance Skey Alarm Threshold (ns) - Default
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold:RESet
Response Syntax	<ThresholdValue>
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:THR:RES SOUR:DATA:TEL:FOTN:INST:SKEW:THR? Returns: 300
See Also	SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?

:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?

Description	This query gets the FlexO Excessive Instance Skew alarm threshold configured value, At *RST condition, this value is set to 300 ns. Navigation Path: Functions > FlexO Advanced > Instance Skew Alarm Threshold (ns) Navigation Path: Results > Alarms/Errors > FlexO Group > Alarms > Instance Skey Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?[<wsp><Value>]
Parameter(s)	Value: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. When not specified, returns the configured Excessive Instance Skew alarm threshold value. MINimum: Returns the minimum value that can be configured. MAXimum: Returns the maximum value that can be configured.
Response Syntax	<ThresholdValue>
Response(s)	ThresholdValue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the configured Excessive Instance Skew alarm threshold value or the minimum/maximum value when the corresponding parameter is used.
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:THR 100 SOUR:DATA:TEL:FOTN:INST:SKEW:THR? Returns: 100
See Also	SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold? SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX:RESet FETCh:DATA:TELecom:FOTN:INSTance:SKEW:RX? SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX?

:SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX	
Description	This command sets the transmitted FlexO instance skew delay value for a given instance part of the test. At *RST condition, this value is set to 0 ns. Navigation Path: Results > FlexO > Group > Instance Skew Alarm Threshold Navigation Path: Functions > FlexO Advanced > Manual Skew
Syntax	:SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX <wsp><Instance ID>, <SkewDelayValue>
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID on which to set the transmitted FlexO instance skew delay value. SkewDelayValue: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the FlexO instance skew delay for transmission in nanosecond. MINimum: Sets the skew delay to its minimum value. MAXimum: Sets the skew delay to its maximum value.
Response Syntax	<ThresholdValue>
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:TX 1, 50 SOUR:DATA:TEL:FOTN:INST:SKEW:TX? 1 Returns: 50
See Also	SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX? SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:TX:RESet FETCh:DATA:TELEcom:FOTN:INSTance:SKEW:RX? SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold SOURce:DATA:TELEcom:FOTN:INSTance:SKEW:THReshold?

:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX:RESet

Description	This command resets the TX FlexO instance skew delay value for all FlexO instances part of the test. At *RST condition, this value is set to 0 ns. Navigation Path: Results > FlexO > Group > Instance Skew Alarm Threshold - Default Navigation Path: Functions > FlexO Advanced > Reset Skew
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX:RESet
Response Syntax	<ThresholdValue>
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:TX:RES
See Also	SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX? FETCh:DATA:TELecom:FOTN:INSTance:SKEW:RX? SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?

:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX?	
Description	This query gets the transmitted FlexO instance skew delay configured value. At *RST condition, this value is set to 0 ns. Navigation Path: Results > FlexO > Group > Instance Skew Alarm Threshold Navigation Path: Functions > FlexO Advanced > Manual Skew
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX? <wsp><Instance ID>,[<SkewValue>]
Parameter(s)	Instance ID: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Specify the instance ID on which to get the transmitted FlexO instance skew delay value from. SkewValue: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. When not specified, returns the the FlexO instance skew delay value for the specified instance. MINimum: Returns the minimum skew delay value that can be configured. MAXimum: Returns the maximum skew delay value that can be configured.
Response Syntax	<SkewDelayValue>
Response(s)	SkewDelayValue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX skew value.
Example(s)	SOUR:DATA:TEL:FOTN:INST:SKEW:TX 1, 50 SOUR:DATA:TEL:FOTN:INST:SKEW:TX? 1 Returns: 50
See Also	SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX SOURce:DATA:TELecom:FOTN:INSTance:SKEW:TX:RESet FETCh:DATA:TELecom:FOTN:INSTance:SKEW:RX? SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?

Reset/Manual Skew

:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX

Description	This command sets the transmitted FlexE PHY skew delay value for a given PHY part of the test. At *RST condition, this value is set to 0 ns. Navigation Path: Functions > FlexE Advanced > Manual Skew
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX <wsp><PhyNumber>,<SkewDelayValue>
Parameter(s)	PhyNumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. The PHY number on which to set the transmitted FlexE PHY skew delay value. SkewDelayValue: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the FlexE PHY skew delay for tranmission in nanosecond. MINimum: Sets the skew delay to its minimum value. MAXimum: Sets the skew delay to its maximum value.
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:TX 1, 50 SOUR:DATA:TEL:FETH:PHY:SKEW:TX? 1 Returns: 50
See Also	SOURce:DATA:TELecom:FETHernet:PHY:THReshold SOURce:DATA:TELecom:FETHernet:PHY:THReshold? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet	
Description	This command resets the TX FlexE PHY skew delay value for all PHYs part of the test. At *RST condition, this value is set to 0 ns. Navigation Path: Functions > FlexE Advanced > Reset Skew
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:TX:RES
See Also	SOURce:DATA:TELecom:FETHernet:PHY:THReshold SOURce:DATA:TELecom:FETHernet:PHY:THReshold? FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX? SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

:SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX?

Description	This query gets the transmitted FlexE PHY skew delay configured value. At *RST condition, this value is set to 0 ns. Navigation Path: Functions > FlexE Advanced > Manual Skew
Syntax	:SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX? <wsp> <PhyNumber>,[<SkewValue>]
Parameter(s)	PhyNumber: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. The PHY number on which to get the transmitted FlexE PHY skew delay value from. SkewValue: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. When not specified, returns the the FlexE PHY skew delay value for the specified PHY. MINimum: Returns the minimum skew delay value that can be configured. MAXimum: Returns the maximum skew delay value that can be configured.
Response Syntax	<SkewDelayValue>
Response(s)	SkewDelayValue: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TX skew value.
Example(s)	SOUR:DATA:TEL:FETH:PHY:SKEW:TX 1, 50 SOUR:DATA:TEL:FETH:PHY:SKEW:TX? 1 Returns: 50
See Also	SOURce:DATA:TELEcom:FETHernet:PHY:THReshold SOURce:DATA:TELEcom:FETHernet:PHY:THReshold? SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX:RESet FEtCh:DATA:TELEcom:FETHernet:PHY:SKEW:RX? SOURce:DATA:TELEcom:FETHernet:PHY:SKEW:TX

Discover Remote Button

:FETCh:DATA:TELecom:ETHernet:DUALtest:STATistics?	
Description	This query returns the IP address, Remote ID, Capability, and Status of remote connection. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > IP address / Remote ID / Capability / Status Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > IP address / Remote ID / Capability / Status Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > IP address / Remote ID / Capability / Status
Syntax	:FETCh:DATA:TELecom:ETHernet:DUALtest:STATistics?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. returns the IP address, Remote ID, Capability, and Status of remote connection.
Example(s)	FETC:DATA:TEL:ETH:DUAL:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

:FETCh:DATA:TELeom:ETHernet:REMoTe:RSCStatus?

Description	This query returns the status of the Dual Test Set connection. At *RST condition, this value is device dependent. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > status Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > status Navigation Path: Test Configurator > RFC 6349 > status
Syntax	:FETCh:DATA:TELeom:ETHernet:REMoTe:RSCStatus?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the DTS connection status: IDLE: Not connected CONNECTEDTOREMOTE: Connected to remote CONTROLLEDBYREMOTE: Controlled by remote
Example(s)	FETC:DATA:TEL:ETH:REM:RSCS?
See Also	FETCh:DATA:TELeom:ETHernet:PORT:GLOBal:IPV:STATus?

:FETCh:DATA:TELEcom:ETHernet:REMote:TPARty:MODule:ID?	
Description	This query returns the detected Remote Module ID. At *RST condition, this value is device-dependent. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Remote Module ID
Syntax	:FETCh:DATA:TELEcom:ETHernet:REMote:TPARty:MODule:ID?
Response Syntax	<Remote Module ID>
Response(s)	Remote Module ID: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns remote module ID
Example(s)	FETC:DATA:TEL:ETH:REM:TPAR:MOD:ID?
See Also	FETCh:DATA:TELEcom:ETHernet:REMote:TPARty:MODule:STATus?

:FETCh:DATA:TELecom:ETHernet:REMOte:TPARty:MODule:STATus?

Description	This query returns the detected Remote Status. At *RST condition, this value is Unknown. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Remote Status
Syntax	:FETCh:DATA:TELecom:ETHernet:REMOte:TPARty:MODule:STATus?
Response Syntax	<Remote Status>
Response(s)	Remote Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns remote status UNKNOWN: Unknown LOOPEDUP: Looped Up LOOPEDDOWN: Looped Down ALLREADYLOOPEDUP: Already Looped Up ALLREADYLOOPEDDOWN: Already Looped Down NORESPONSE: No Response
Example(s)	FETC:DATA:TEL:ETH:REM:TPAR:MOD:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:REMOte:TPARty:MODule:ID?

:SOURce:DATA:TELEcom:ETHernet:REMote:CONNect	
Description	This command establishes the connection with the selected remote module and sets the remote module into the same test application as the local. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Connect Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Connect Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Connect
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:CONNect <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP addres of the remote module and connects to the remote.
Response Syntax	<Remote Status>
Example(s)	SOUR:DATA:TEL:ETH:REM:CONN 10.192.5.182
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet?

:SOURce:DATA:TELecom:ETHernet:REMOte:CONNect?

Description	This query returns the Dual Test Set connection status. At *RST condition, this value is set to DISCONNECTED. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Connect Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Connect Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Connect
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:CONNect?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the DTS Connection status. CONNECTED: DTS Connection established. DISCONNECTED, DTS Connection not established.
Example(s)	SOUR:DATA:TEL:ETH:REM:CONN 10.192.5.182 SOUR:DATA:TEL:ETH:REM:CONN? Returns: CONNECTED
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:SSUBnet

:SOURce:DATA:TELeom:ETHernet:REMOte:DISConnect	
Description	This command disconnects the Dual Test Set. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Disconnect Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Disconnect Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Disconnect
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:DISConnect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:CONN 10.192.5.182 SOUR:DATA:TEL:ETH:REM:DISC
See Also	SOURce:DATA:TELeom:PATtern:ERRor:PATtern:AUTomated:TYPE?

:SOURce:DATA:TELecom:ETHerNet:REMOte:LOOP:DOWN

Description	This command ends the connection between the local and the remote modules This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Loop Down Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Loop Down
Syntax	:SOURce:DATA:TELecom:ETHerNet:REMOte:LOOP:DOWN
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:LOOP:UP 10.192.5.182 SOUR:DATA:TEL:ETH:REM:LOOP:DOWN
See Also	SOURce:DATA:TELecom:ETHerNet:REMOte:DISConnect

:SOURce:DATA:TELecom:ETHernet:REMOte:LOOP:UP	
Description	This command establishes the connection with a remote module and sets the remote module into Smart Loopback test application. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Loop Up Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Loop Up
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:LOOP:UP <wsp> <Address>
Parameter(s)	Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Connects to the specified remote module (IP address).
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:LOOP:UP 10.192.5.182
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:CONNect?

:SOURce:DATA:TELecom:ETHernet:REMOte:MODule:TYPE

Description	This command selects Remote Module Type. At *RST condition, this value is set to EXFO. Navigation Path: Discover Remote > Remote Module Type
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:MODule:TYPE <wsp> <Remote Module Type>
Parameter(s)	Remote Module Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Remote Module Type. EXFO: EXFO THIRDPARTY: 3rd Party Loopback
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:MOD:TYPE EXFO
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:LAYer

:SOURce:DATA:TELEcom:ETHernet:REMote:MODule:TYPE?	
Description	This query returns the Remote Module Type. At *RST condition, this value is set to EXFO. Navigation Path: Discover Remote > Remote Module Type
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:MODule:TYPE?
Response Syntax	<Remote Module Type>
Response(s)	Remote Module Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Remote Module Type EXFO: EXFO THIRDPARTY: 3rd Party Loopback
Example(s)	SOUR:DATA:TEL:ETH:REM:MOD:TYPE EXFO SOUR:DATA:TEL:ETH:REM:MOD:TYPE? Returns: EXFO
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:LAYer?

:SOURce:DATA:TELecom:ETHernet:REMOte:SCANtarget:TYPE

Description	This command sets the scan target type. At *RST condition, this value is set to SUBNET. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Target Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Target Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Target
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:SCANtarget:TYPE <wsp> <Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Scan target type. SUBNET: Subnet SPECIFICIP: Specific IP
Response Syntax	<Remote Module Type>
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:TYPE SUBNET
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:SSUBnet?

:SOURce:DATA:TELecom:ETHernet:REMOte:SCANtarget:TYPE?	
Description	This query returns the scan target type. At *RST condition, this value is set to SUBNET. Navigation Path: Setup > RFC 2544 > Test Configurator > RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Target Test Setup > EtherSAM (Y.1564) > Test Configurator > EtherSAM > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Target
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:SCANtarget:TYPE?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the scan target type. SUBNET: Subnet SPECIFICIP: Specific IP
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:TYPE SUBNET SOUR:DATA:TEL:ETH:REM:SCAN:TYPE? Returns: SUBNET
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:SSUBnet

:SOURce:DATA:TELecom:ETHernet:REMOte:SSUBnet

Description	This command enables/disables the Scan target for Dual Test Set. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Scan Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Scan Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Scan
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:SSUBnet <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the Scan target for Dual Test Setup. ON: Enables the Scan target. OFF: Disables the Scan target.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:SSUB ON
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:SCANtarget:TYPE?

:SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet?	
Description	This query returns the enable/disable status of the Scan target for Dual Test Set. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Discover Remote button > Remote Modules Discovery > Scan Navigation Path: Test Configurator > EtherSAM/RFC 2544 > Global > Dual Test Set > Discover Remote > Remote Modules Discovery > Scan Navigation Path: Test Configurator > RFC 6349 > Discover Remote > Remote Modules Discovery > Scan
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:SSUBnet?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the transmitter status. 1: Scan is enabled. 0: Scan is disabled.
Example(s)	SOUR:DATA:TEL:ETH:REM:SSUB ON SOUR:DATA:TEL:ETH:REM:SSUB? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:SCANtarget:TYPE

:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:IP

Description	This command sets the Destination IP Address for 3rd Party Loopback. At *RST condition, this value is set to 10.10.0.0 Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:IP <wsp> <Destination IP Address>
Parameter(s)	Destination IP Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination IP Address
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:IP 10.11.10.12
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:MAC

:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:IP?	
Description	This query returns the Destination IP Address for 3rd Party Loopback. At *RST condition, this value is set to 10.10.0.0 Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination IP Address
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:IP?
Response Syntax	<Destination IP Address>
Response(s)	Destination IP Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination IP Address
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:IP 10.11.10.12 SOUR:DATA:TEL:ETH:REM:TPAR:DEST:IP? Returns: 10.11.10.12
See Also	SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:MAC?

**:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTinati
on:MAC**

Description	This command sets the Destination MAC Address for 3rd Party Loopback. At *RST condition, this value is set to FE:FE:FE:FE:FE:FE Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination MAC Address
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:MAC <wsp> <Destination MAC Address>
Parameter(s)	Destination MAC Address: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination MAC Address
Response Syntax	<Destination IP Address>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:MAC FF:FF:FF:FF:FF:FF
See Also	SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:LOOP:LAYer

:SOURce:DATA:TELEcom:ETHernet:REMOte:TPARty:DESTination:MAC?	
Description	This query returns the Destination MAC Address for 3rd Party Loopback. At *RST condition, this value is set to FE:FE:FE:FE:FE:FE Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination MAC Address
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMOte:TPARty:DESTination:MAC?
Response Syntax	<Destination MAC Address>
Response(s)	Destination MAC Address: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Destination MAC Address
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:MAC FF:FF:FF:FF:FF:FF SOUR:DATA:TEL:ETH:REM:TPAR:DEST:MAC? Returns: FF:FF:FF:FF:FF:FF
See Also	SOURce:DATA:TELEcom:ETHernet:REMOte:TPARty:LOOP:LAYer?

:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:PORT

Description	This command sets the Destination Port for 3rd Party Loopback. At *RST condition, this value is set to 7. Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination Port
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:PORT <wsp> <Destination Port>
Parameter(s)	Destination Port: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Destination Port MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Destination MAC Address>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:PORT 25
See Also	SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:MAC

:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:PORT?	
Description	This query returns the Destination Port for 3rd Party Loopback. At *RST condition, this value is set to 7. Navigation Path: Discover Remote > Remote Module Discovery - 3rd Party Loopback > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:PORT?[<wsp><Port>]
Parameter(s)	Port: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current port is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Destination Port>
Response(s)	Destination Port: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Destination Port
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:PORT 25 SOUR:DATA:TEL:ETH:REM:TPAR:DEST:PORT? Returns: 25
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:DESTination:MAC?

**:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTinati
on:USTReam**

Description	This command enables/disables the Use Stream Destination from Test Application. At *RST condition, this value is set to ON. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Use Stream Destination from Test Application
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:USTReam <wsp><Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Destination Port>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:USTR ON
See Also	SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:LOOP:LAYer

:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:USTR?eam?

Description	This query returns the enable/disable status of the Use Stream Destination from Test Application At *RST condition, this value is set to ON. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Use Stream Destination from Test Application
Syntax	:SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:DESTination:USTR?eam?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:DEST:USTR ON SOUR:DATA:TEL:ETH:REM:TPAR:DEST:USTR? Returns 1
See Also	SOURce:DATA:TELEcom:ETHernet:REMote:TPARty:LOOP:LAYer?

:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:DOWN	
Description	This command ends the connection between the EXFO and the remote third party module. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Loop Down
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:DOWN
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:LOOP:DOWN
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:DISConnect

:SOURce:DATA:TELecom:ETHerneT:REMOte:TPARty:LOOP:LAY er	
Description	This command selects Loop Layer type. At *RST condition, this value is set to L2. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Loop Layer
Syntax	:SOURce:DATA:TELecom:ETHerneT:REMOte:TPARty:LOOP:LAYer <wsp> <Loop Layer>
Parameter(s)	Loop Layer: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Loop Layer type. L2: L2 : Ethernet L3: L3 : IP L4: L4 : UDP/TCP
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:LOOP:LAY L2
See Also	SOURce:DATA:TELecom:ETHerneT:REMOte:TPARty:DESTination:USTream?

:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:LOOP:LAYer?

Description	This query returns the selected Loop Layer type. At *RST condition, this value is set to L2. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Loop Layer
Syntax	:SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:LOOP:LAYer?
Response Syntax	<Loop Layer>
Response(s)	Loop Layer: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Loop Layer type L2: L2 : Ethernet L3: L3 : IP L4: L4 : UDP/TCP
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:LOOP:LAY? Returns: L2
See Also	SOURce:DATA:TELeom:ETHernet:REMOte:TPARty:DESTination:USTream?

SCPI Command Reference

Discover Remote Button

:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:UP	
Description	This command establishes the connection with a third party remote module. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Discover Remote > Remote Module Type - 3rd Party Loopback > Loop Up
Syntax	:SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:UP
Response Syntax	<Loop Layer>
Example(s)	SOUR:DATA:TEL:ETH:REM:TPAR:LOOP:UP
See Also	SOURce:DATA:TELecom:ETHernet:REMOte:TPARty:LOOP:DOWN

Lpbk Tool Button (Loopback Tool)

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:COUNT?

Description	This query returns reports the count of RX valid specific frame for Smart loopback tool test. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Responder > RX Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:COUNT? <wsp> <Frame>
Parameter(s)	Frame: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of responder frame type. LBM LTM DMM LMM SLM
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the RX frame count.
Example(s)	FETC:DATA:TEL:SOAM:SLT:TRAF:RESP:RX:COUN? LBM
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:LTR:TIMEout?

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:TOTal?	
Description	This query returns the total count of RX valid frames for Smart loopback tool test. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Responder > RX Total
Syntax	:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder total received frame count.
Example(s)	FETC:DATA:TEL:SOAM:SLT:TRAF:RESP:RX:TOT?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:STATus?

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:COUNT?

Description	This query returns the count of TX valid specific frame for Smart loopback tool test. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Responder > TX Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:COUNT? <wsp> <Frame>
Parameter(s)	Frame: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the type of responder frame type. LBR LTR DMR LMR SLR
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder TX frame count.
Example(s)	FETC:DATA:TEL:SOAM:SLT:TRAF:RESP:TX:COUN? LBR
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?

SCPI Command Reference

Lpbk Tool Button (Loopback Tool)

:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:TOTal?	
Description	This query returns the total count of TX valid frames for for Smart loopback tool test. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Responder > TX Total
Syntax	:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:TOTal?
Response Syntax	<Value>
Response(s)	Value: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the responder total transmitted frame count.
Example(s)	FETC:DATA:TEL:SOAM:SLT:TRAF:RESP:TX:TOT?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:INValid:LTR?

:FETCh:DATA:TELecom:TEST:SLTool:STARt:TIME?

Description	This query returns the time at which the test started for Smart loopback tool test. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Start Time
Syntax	:FETCh:DATA:TELecom:TEST:SLTool:STARt:TIME?
Response Syntax	<StartTime>
Response(s)	StartTime: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the time at which the test started.
Example(s)	SOUR:DATA:TEL:ETH:SLT:TEST ON FETC:DATA:TEL:TEST:SLT:STAR:TIME?
See Also	FETCh:DATA:TELecom:TEST:STARt:TIME?

SCPI Command Reference

Lpbk Tool Button (Loopback Tool)

:FETCh:DATA:TELEcom:TEST:SLTool:STATus?	
Description	This query returns the test status of Smart loopback tool test. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Status
Syntax	:FETCh:DATA:TELEcom:TEST:SLTool:STATus?
Response Syntax	<Test Status>
Response(s)	Test Status: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the status of the test.
Example(s)	SOUR:DATA:TEL:ETH:SLT:TEST ON FETC:DATA:TEL:TEST:SLT:STAT?
See Also	FETCh:DATA:TELEcom:TEST:STATus?

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:BANDwidth?

Description	This query returns the Bandwidth for TX/RX for Smart Loopback tool application. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Traffic > Ethernet BW
Syntax	:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:BANDwidth? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. RX: Received TX: Transmitted
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Ethernet bandwidth for TX or RX.
Example(s)	SENS:DATA:TEL:ETH:SLT:PACK:BAND? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization?

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:COU Nt?	
Description	This query returns the Frame count for TX/RX. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Traffic > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:COUNT? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. RX: Received TX: Transmitted
Response Syntax	<Count>
Response(s)	Count: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame count for TX or RX.
Example(s)	SENS:DATA:TEL:ETH:SLT:PACK:FRAM:COUN? TX
See Also	SENS:DATA:TEL:ETH:PAC:FRAM:COUN? TX

:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:RATE?

Description	This query returns the Frame Rate for TX/RX for Smart Loopback application. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Traffic > Frame rate
Syntax	:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:RATE? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. RX: Received TX: Transmitted
Response Syntax	<Frame Rate>
Response(s)	Frame Rate: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the frame rate for TX or RX.
Example(s)	SENS:DATA:TEL:ETH:SLT:PACK:FRAM:RATE? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth?

:SENSe:DATA:TELEcom:ETHernet:SLTool:PACKet:LINE:UTILization?	
Description	This query returns the utilization for TX/RX for Smart loopback tool test. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Traffic > Line Utilization
Syntax	:SENSe:DATA:TELEcom:ETHernet:SLTool:PACKet:LINE:UTILization? <wsp><Direction>
Parameter(s)	Direction: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the direction. RX: Received TX: Trrransmitted
Response Syntax	<Utilization>
Response(s)	Utilization: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the line utilization for TX or RX.
Example(s)	SENS:DATA:TEL:ETH:SLT:PACK:LINE:UTIL? RX
See Also	FETCh:DATA:TELEcom:ETHernet:PAUSe:FRAMe:RX?

:SOURce:DATA:TELEcom:ETHernet:SLTool:ENABle

Description	This command enables/disables the Smart Loopback Tool Test. At *RST condition, this value is set to OFF. Navigation Path: Test > Loopback tool > Loopback button
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:ENABle <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the test. ON: Enables the test. OFF: Disables the test.
Response Syntax	<Utilization>
Example(s)	SOUR:DATA:TEL:ETH:SLT:ENAB ON SOUR:DATA:TEL:ETH:SLT:ENAB?
See Also	SOURce:DATA:TELEcom:ETHernet:SLTool:TEST

SCPI Command Reference

Lpbk Tool Button (Loopback Tool)

:SOURce:DATA:TELecom:ETHernet:SLTool:ENABle?	
Description	This query returns the enables/disables status of the Smart Loopback Tool Test. At *RST condition, this value is set to OFF. Navigation Path: Test > Loopback tool > Loopback button
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:ENABle?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable test status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:SLT:ENAB ON SOUR:DATA:TEL:ETH:SLT:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:SLTool:TEST?

:SOURce:DATA:TELeom:ETHernet:SLTool:SLOopback:MODE

Description	This command selects the loopback mode for Smart loopback tool test. At *RST condition, this value is set to UDP. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Loopback Mode
Syntax	:SOURce:DATA:TELeom:ETHernet:SLTool:SLOopback:MODE <wsp> <Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the loopback mode for the smart loopback application. UDPTCP, UDP mode is selected. IP, IP mode is selected. ETHernet, Ethernet mode is selected. EAUNicast, Ethernet all unicast mode is selected.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:SLT:SLO:MODE IP
See Also	SOURce:DATA:TELeom:ETHernet:SLOopback:MODE

SCPI Command Reference

Lpbk Tool Button (Loopback Tool)

:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:MODE?	
Description	This query returns the selected loopback mode for Smart loopback tool test. At *RST condition, this value is set to UDPTCP. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Loopback Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:SLOopback:MODE?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the loopback mode. IP: IP UDPTCP: UDP. ETHERNET: Ethernet EAUNICAST: Ethernet All Unicast
Example(s)	SOUR:DATA:TEL:ETH:SLT:SLO:MODE IP SOUR:DATA:TEL:ETH:SLT:SLO:MODE? Returns: IP
See Also	SOURce:DATA:TELEcom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABLE

Description	This command enables/disables the Transparent (Pseudo-Physical) mode for Smart loopback tool test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Transparent (Pseudo-Physical)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABLE <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:SLT:SLO:TRAN:MODE:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABLE?	
Description	This query returns the enable/disable status of the Transparent (Pseudo-Physical) mode for Smart loopback tool test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Transparent (Pseudo-Physical)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:SLT:SLO:TRAN:MODE:ENAB ON SOUR:DATA:TEL:ETH:SLT:SLO:TRAN:MODE:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:NETWork:VLAN:STATus?

:SOURce:DATA:TELeom:ETHernet:SLTool:TEST

Description	This command starts/stops the Smart Loopback Tool Test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Loopback button.
Syntax	:SOURce:DATA:TELeom:ETHernet:SLTool:TEST <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts or stops the test. ON: Starts the test OFF: Stops the test
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:SLT:TEST ON SOUR:DATA:TEL:ETH:SLT:TEST? Returns: 1
See Also	SOURce:DATA:TELeom:ETHernet:SLTool:TEST ON

SCPI Command Reference

Lpbk Tool Button (Loopback Tool)

:SOURce:DATA:TELEcom:ETHernet:SLTool:TEST?	
Description	This query returns the start/stop status of Smart Loopback Tool Test. At *RST condition, this value is set to OFF. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > Loopback button
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:TEST?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the start/stop status. 1: Started 0: Stopped
Example(s)	SOUR:DATA:TEL:ETH:SLT:TEST ON SOUR:DATA:TEL:ETH:SLT:TEST? Returns: 1
See Also	SOURce:DATA:TELEcom:ETHernet:SLTool:TEST?

:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle

Description	This command enables/disables OAM Responder for Smart loopback tool test. At *RST condition, this value is ON. Navigation Path: Test Control > Lpbk Tool > Loopback Tool > OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:SLT:RESP:ENAB ON SOUR:DATA:TEL:SOAM:SLT:RESP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABLE?	
Description	This query returns the enable/disable status of OAM Responder for Smart loopback tool test. At *RST condition, this value is ON. Navigation Test Control > Lpbk Tool > Loopback Tool > OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:SLT:RESP:ENAB ON SOUR:DATA:TEL:SOAM:SLT:RESP:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE

Lpbk Tool Button (Interface)

:FETCh:DATA:TELEcom:ETHernet:SLTool:ALARm:LINK?

Description	This query returns the alarm status. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK and Alarms
Syntax	:FETCh:DATA:TELEcom:ETHernet:SLTool:ALARm:LINK? <wsp><Alarm>
Parameter(s)	Alarm: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm type whose status is to be retrieved. LDOWn: Link Down For 10GE LAN only: LFAR: Local Fault Received LFAD: Local Fault Detected RFAult: Remote Fault
Response Syntax	<Alarm>
Response(s)	Alarm: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the alarm status. PRESENT: At least one alarm has occurred ABSENT: No alarm occurred INACTIVE: The test did not run yet
Example(s)	FETC:DATA:TEL:ETH:SLT:ALAR:LINK? RFA
See Also	FETCh:DATA:TEL:ETHernet:EOTN:ALAR:LINK?

:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:BANDwidth?	
Description	This query returns the detected interface speed for 10/100/1000M Electrical interface/rate. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Speed
Syntax	:FETCh:DATA:TELEcom:ETHernet:SLTool:PORT:BANDwidth?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface speed. B100MBPS: 100M speed is selected. B10MBPS: 10M speed is selected. B1GBPS: 1GBPS speed is selected. AUTO: Auto
Example(s)	FETC:DATA:TEL:ETH:SLT:PORT:BAND?
See Also	FETCh:DATA:TELEcom:ETHernet:PORT:BANDwidth?

:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:DUPLex?

Description	This query returns the negotiated duplex mode. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Duplex
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:DUPLex?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex mode. FULL HALF
Example(s)	FETC:DATA:TEL:ETH:SLT:PORT:DUPL?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?

:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:FCONtrol?	
Description	This query returns the flow control for the selected instrument port in Smart loopback tool test. At *RST condition, this value is device dependent. Navigation Path: Test > Loopback tool > Interface > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:FCONtrol?
Response Syntax	<Fcantrol>
Response(s)	Fcantrol: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control for the selected instrument port in Smart loopback tool test. TX, Tx is selected as flow control. RX, Rx is selected as flow control. RXANDTX, RX and TX is selected as flow control. NONE: No flow control
Example(s)	FETCh:DATA:TELecom:ETHernet:SLTool:PORT:FCONtrol?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?

:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK?

Description	This query returns the local clock mode used. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Clock Mode
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK?
Response Syntax	<Clock>
Response(s)	Clock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns clock mode. MASTER: Master SLAVE: Slave AUTO: Auto
Example(s)	FETC:DATA:TEL:ETH:SLT:PORT:LOC:CLOC?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK?

SCPI Command Reference

Lpbk Tool Button (Interface)

:INPut:TELecom:SLTool:BACKplane:CLOCK?	
Description	This query returns the clock mode for synchronization at the input port for Smart loopback tool test. At *RST condition, this value is set to INTERNAL. Navigation Path: Setup > LoopBackTool > External/Internal/Recovered Clock > Clock Mode
Syntax	:INPut:TELecom:SLTool:BACKplane:CLOCK?
Response Syntax	<Clock>
Response(s)	Clock: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the clock mode for synchronization at the input port. INTERNAL, indicates the internal clock of the unit (STRATUM 3). EXTERNAL, indicates the clock received from the connected DS1/E1/2M external clock signal (port). Bplane, indicates the Bplane clock.
Example(s)	INP:TEL:SLT:BACK:CLOC?
See Also	INPut:TELecom:BACKplane:CLOCK

:SENSe:DATA:TELecom:ELECtrical:SLTool:PORT:FREQuency?	
Description	This query returns the RX frequency for electrical interface. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > RX Frequency.
Syntax	:SENSe:DATA:TELecom:ELECtrical:SLTool:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the RX frequency.
Example(s)	SENS:DATA:TEL:ELEC:SLT:PORT:FREQ?
See Also	SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency?

SCPI Command Reference

Lpbk Tool Button (Interface)

:SENSe:DATA:TELecom:OPTical:SLTool:LASer:WAVelength?	
Description	This query returns the detected laser wavelength. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Wavelength (nm)
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:LASer:WAVelength?
Response Syntax	<Wavelength>
Response(s)	Wavelength: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the detected laser wavelength
Example(s)	SENS:DATA:TEL:OPT:SLT:LAS:WAV?
See Also	SENS:DATA:TELecom:OPTical:LASer:WAVelenth?

:SENSe:DATA:TELecom:OPTical:SLTool:PORT:FREQuency?

Description	This query returns the RX frequency for optical interface. At *RST condition, this value is set to device-dependent. Navigation Test Control > Lpbk Tool > Interface > Physical Interface > RX Frequency
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the RX frequency.
Example(s)	SENS:DATA:TEL:OPT:SLT:PORT:FREQ?
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

SCPI Command Reference

Lpbk Tool Button (Interface)

:SENSe:DATA:TELecom:OPTical:SLTool:POWer:RANGe?	
Description	This query returns the power range. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > LoopBackTool > Interface > Physical Interface > Power Range (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:POWer:RANGe?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the power range values.
Example(s)	SENS:DATA:TEL:OPT:SLT:POW:RANG?
See Also	SENSe:DATA:TELecom:OPTical:POWer:RANGe? SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:SLTool:RX:POWer?

Description	This query returns the value of the RX power. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:RX:POWer?
Response Syntax	<Power>
Response(s)	Power: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the RX power value.
Example(s)	SENS:DATA:TEL:OPT:SLT:RX:POW?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:NUMBer?	
Description	This query returns the tunable wavelength channel number value. At *RST condition, this value is device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Channel Number
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:NUMBER?
Response Syntax	<ChannelNumber>
Response(s)	ChannelNumber: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable channel number of wavelength.
Example(s)	SENS:DATA:TEL:OPT:SLT:TUN:CHAN:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?

:SENSe:DATA:TELeom:OPTical:SLTool:TUNable:CHANnel:SPACing?

Description	This query returns the tunable wavelength channel spacing value. At *RST condition, this value is device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Channel Spacing (GHz)
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:TUNable:CHANnel:SPACing?
Response Syntax	<ChannelSpacing>
Response(s)	ChannelSpacing: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the tunable channel spacing of wavelength.
Example(s)	SENS:DATA:TEL:OPT:SLT:TUN:CHAN:SPAC?
See Also	SENSe:DATA:TELeom:OPTical:TUNable:CHANnel:SPACing?

:SENSe:DATA:TELeom:OPTical:SLTool:TUNable:FREQency?	
Description	This query returns the tunable frequency value. At *RST condition, this value is device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Frequency (THz)
Syntax	:SENSe:DATA:TELeom:OPTical:SLTool:TUNable:FREQency?
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable frequency value.
Example(s)	SENS:DATA:TEL:OPT:SLT:TUN:FREQ?
See Also	SENS:DATA:TEL:OPT:SLT:TUN:FREQ?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth

Description	This command sets the speed for 10/100/1000M Electrical interface/rate when Auto-Negotiation is enabled. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Speed
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth <wsp><Speed>
Parameter(s)	Speed: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the speed. B10Mbps: 10Mbps B100Mbps: 100Mbps B1Gbps: 1Gbps AUTO: Auto
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:BAND B10MBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth?	
Description	This query returns the speed for 10/100/1000M Electrical interface/rate when Auto-Negotiation is enabled. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Speed
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth?
Response Syntax	<Speed>
Response(s)	Speed: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the speed.
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:BAND B10MBPS SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:BAND? Returns: B10MBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex

Description	This command sets the duplex mode when Auto-Negotiation is enabled. At *RST condition, this value is set to FULL. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex <wsp> <Duplex>
Parameter(s)	Duplex: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the duplex mode. FULL AUTO
Response Syntax	<Speed>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:DUPL FULL
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex?	
Description	This query returns the duplex mode when Auto-Negotiation is enabled. At *RST condition, this value is set to FULL. Navigation Path: Test Control > Lpbk Tool > Interface > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex?
Response Syntax	<Duplex>
Response(s)	Duplex: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex mode. FULL AUTO
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:DUPL FULL SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:DUPL? Returns: FULL
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:FCONtrol?

Description	This query returns the flow control when Auto-Negotiation is enabled. At *RST condition, this value is set to NONE. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:FCONtrol?
Response Syntax	<Control>
Response(s)	Control: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control. NONE: No flow control
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:FCON NONE SOUR:DATA:TEL:ETH:SLT:PORT:ANEG:FCON? Returns: NONE
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth	
Description	This command sets the interface speed for 10/100/1000M Electrical interface/rate when Auto-Negotiation is disabled. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth <wsp><Speed>
Parameter(s)	Speed: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface/rate speed. B10Mbps: 10Mbps B100Mbps: 100Mbps B1Gbps: 1Gbps B2P5GBPS: 2.5 Gbit/s B5GBPS: 5 Gbit/s B10GBPS: 10 Gbit/s
Response Syntax	<Control>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:BAND B100M
See Also	SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth?

Description	This query returns the interface speed for 10/100/1000M Electrical interface/rate when Auto-Negotiation is disabled. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Speed
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	Bandwidth: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the configured rate. B10Mbps: 10Mbps B100Mbps: 100Mbps B1Gbps: 1Gbps B2P5GBPS: 2.5Gbps B5GBPS: 5Gbps B10GBPS: 10Gbps
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:BAND B100M SOUR:DATA:TEL:ETH:SLT:PORT:BAND? Returns: B100MBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?

SCPI Command Reference

Lpbk Tool Button (Interface)

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE	
Description	This command sets the cable mode for 10/100/1000M electrical interface/rate. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE <wsp><Mode>
Parameter(s)	Mode: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the cable mode. MANual AUTomatic
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE MANUAL
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE:STATus

Description	This command sets the cable type when the cable mode is Manual. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Cable Mode Type
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE:STATus <wsp><Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the cable type. MDIX: Media Dependant Interface Crossover (crossover Ethernet cable) MDI: Media Dependant Interface (straight through Ethernet cable)
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE:STAT MDIX
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE:STATus

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE:STATus?	
Description	This query returns the cable type. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Cable Mode Type
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE:STATus?
Response Syntax	<Type>
Response(s)	Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the manual cable mode. MDIX: Media Dependant Interface Crossover (crossover Ethernet cable) MDI: Media Dependant Interface (straight through Ethernet cable)
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE:STAT MDIX SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE:STAT? Returns: MDIX
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE:STATus?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE

?

Description	This Query returns the cable mode for 10/100/1000M electrical interface/rate. At *RST condition, this value is set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:CABLe:MODE?
Response Syntax	<Cable Mode>
Response(s)	Cable Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the cable mode for Smart loopback test. MANual AUTomatic
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE MANUAL SOUR:DATA:TEL:ETH:SLT:PORT:CABL:MODE? Returns: MANUAL
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:CABLe:MODE?

:SOURce:DATA:TELeom:ETHernet:SLTool:PORT:DUPLex?	
Description	This query returns the duplex mode when Auto-Negotiation is disabled. At *RST condition, this value is set to FULL. Navigation Path: Test Control > Lpb Tool > Interface > LINK > Duplex
Syntax	:SOURce:DATA:TELeom:ETHernet:SLTool:PORT:DUPLex?
Response Syntax	<Mode>
Response(s)	Mode: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the duplex mode. FULL HALF
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:DUPL FULL SOUR:DATA:TEL:ETH:SLT:PORT:DUPL? Returns: FULL
See Also	SOURce:DATA:TELeom:ETHernet:PORT:DUPLex?

:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:FCONtrol?

Description	This query returns the flow control. At *RST condition, this value is set to NONE. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELEcom:ETHernet:SLTool:PORT:FCONtrol?
Response Syntax	<Control>
Response(s)	Control: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control. NONE: No flow control
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:FCON NONE SOUR:DATA:TEL:ETH:SLT:PORT:FCON? Returns: NONE
See Also	SOURce:DATA:TELEcom:ETHernet:PORT:FCONtrol?

SCPI Command Reference

Lpbk Tool Button (Interface)

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK	
Description	This command sets the Local Clock type. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Local Clock
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK <wsp> <Type>
Parameter(s)	Type: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the local clock type. MASTER SLAVE AUTO
Response Syntax	<Control>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:LOC:CLOC
See Also	SOURceDATA:TELecom:ETHernet:PORT:LOCal:CLOCK?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK?

Description	This query returns local clock type. At *RST condition, this value is device dependent. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Local Clock
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCK?
Response Syntax	<Clock Type>
Response(s)	Clock Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns local clock type. MASTER SLAVE AUTO
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:LOC:CLOC AUTO SOUR:DATA:TEL:ETH:SLT:PORT:LOC:CLOC? Returns: AUTO
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCK

SCPI Command Reference

Lpbk Tool Button (Interface)

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation	
Description	This command enables/disables auto-negotiation. At *RST condition, this value is set to ON. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Auto-Negotiation
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation <wsp><Set>
Parameter(s)	Set: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables auto-negotiation. ON: Enables auto-negotiation OFF: Disables auto-negotiation
Response Syntax	<Clock Type>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:NEG ON
See Also	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation?

Description	This query returns the enable/disable status of auto-negotiation. At *RST condition, this value is set to ON. Navigation Path: Test Control > Lpbk Tool > Interface > LINK > Auto-Negotiation
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status of auto-negotiation. 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:NEG? ON SOUR:DATA:TEL:ETH:SLT:PORT:NEG? Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver	
Description	The command selects the physical connector port for the loopback tool. At *RST condition, this value is set device dependant. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver <wsp><Connector>
Parameter(s)	Connector: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the physical connector port for the loopback tool. RJ45: RJ45 Port 1 SFPPLUS: SFP+ Port 1 SFPPLUSP2: SFP+ Port 2 SFP28A1: SFP28 Port A1 SFP28A2: SFP28 Port A2 SFP28B1: SFP28 Port B1 SFP28B2: SFP28 Port B2 SFPPLUSRJ45P2: SFPPLUSRJ45 Port 2 SFP28RJ45A1: SFP28RJ45 Port A1 SFP28RJ45A2: SFP28RJ45 Port A2 SFP28RJ45B1: SFP28RJ45 Port B1 SFP28RJ45B2: SFP28RJ45 Port B2
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:TRAN SFP28B1 SOUR:DATA:TEL:ETH:SLT:PORT:TRAN? Returns: SFP28B1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver?	
Description	This query returns the physical connector port for the loopback tool. At *RST condition, this value is set device dependant. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver?
Response Syntax	<Connector>
Response(s)	Connector: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the physical connector port for the loopback tool. RJ45: RJ45 Port 1 SFPPLUS: SFP+ Port 1 SFPPLUSP2: SFP+ Port 2 SFP28A1: SFP28 Port A1 SFP28A2: SFP28 Port A2 SFP28B1: SFP28 Port B1 SFP28B2: SFP28 Port B2 SFPPLUSRJ45P2: SFPPLUSRJ45 Port 2 SFP28RJ45A1: SFP28RJ45 Port A1 SFP28RJ45A2: SFP28RJ45 Port A2 SFP28RJ45B1: SFP28RJ45 Port B1 SFP28RJ45B2: SFP28RJ45 Port B2
Example(s)	SOUR:DATA:TEL:ETH:SLT:PORT:TRAN SFP28B1 SOUR:DATA:TEL:ETH:SLT:PORT:TRAN? Returns: SFP28B1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:WAVelength	
Description	This command sets the wavelength for tunable tranceivers. At *RST condition, this value set to device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Wavelength (nm)
Syntax	:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:WAVelength <wsp> <Wavelength>
Parameter(s)	Wavelength: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Modify the tunable wavelength value. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Connector>
Example(s)	SOUR:DATA:TEL:OPT:SLT:TUN:WAV 1548.38
See Also	SOUR:DATA:TEL:OPT:TUN:WAV 1548.38 SOUR:DATA:TEL:OPT:TUN:WAV? Returns 1548.38

:SOURce:DATA:TELEcom:OPTical:SLTool:TUNable:WAVelengt
h?

Description	This query returns tunable wavelength value. At *RST condition, this value is device-dependent. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Wavelength (nm)
Syntax	:SOURce:DATA:TELEcom:OPTical:SLTool:TUNable:WAVelength?[<wsp> <Wavelength>]
Parameter(s)	Wavelength: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token specified, the current wavelength value is returned. MAXimum: Biggest supported value. MINimum: Smallest supported value.
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the tunable wavelength value.
Example(s)	SOUR;DATA:TEL:OPT:SLT:TUN:WAV SOUR;DATA:TEL:OPT:SLT:TUN:WAV? Returns 0
See Also	SOUR;DATA:TEL:OPT:TUN:WAV 1548.38 SOUR;DATA:TEL:OPT:TUN:WAV? returns 1548.38

SCPI Command Reference

Lpbk Tool Button (Interface)

:SOURce:DATA:TELeom:SLTool:ITYPE	
Description	This command sets the interface/rate. At *RST condition, this value is set to 1GEOPTICAL. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Interface/Rate
Syntax	:SOURce:DATA:TELeom:SLTool:ITYPE <wsp> <Interface>
Parameter(s)	Interface: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the interface type. 101001000MELEC: 10/100/1000M Electrical BASETELEC: Base-T Electrical or 10/100/1000M Electrical 10GELAN: 10GE LAN 100MOPTICAL: 100M Optical 1GEOPTICAL: 1GE Optical.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SLT:ITYP 10GELAN
See Also	SOURce:DATA:TELeom:ITYPE

:SOURce:DATA:TELeom:SLTool:ITYPE?

Description	This query returns the interface/rate. At *RST condition, this value is set to 1GEOPTICAL.. Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Interface/Rate
Syntax	:SOURce:DATA:TELeom:SLTool:ITYPE?
Response Syntax	<Interface>
Response(s)	Interface: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the interface/rate. 101001000MELEC: 10/100/1000M Electrical BASETELEC: Base-T Electrical or 10/100/1000M Electrical 10GELAN: 10GE LAN 100MOPTICAL: 100M Optical 1GEOPTICAL: 1GE Optical
Example(s)	SOUR:DATA:TEL:SLT:ITYP 10GELAN SOUR:DATA:TEL:SLT:ITYP? Returns: 10GELAN
See Also	SOURce:DATA:TELeom:ITYPE?

SCPI Command Reference

Lpbk Tool Button (Interface)

:SOURce:DATA:TELecom:VERDict:ENABle	
Description	This command enables/disables the test verdict status. At *RST condition, this value is set to ON. Navigation Path: Test > Test Configurator > Pass/Fail verdict
Syntax	:SOURce:DATA:TELecom:VERDict:ENABle <wsp> <Status>
Parameter(s)	Status: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Interface>
Example(s)	SOUR:DATA:TEL:VERD:ENAB ON SOUR:DATA:TEL:VERD:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:TEST:TYPE?

:SOURce:DATA:TELecom:VERDict:ENABLE?

Description	This Query returns verdict status At *RST condition, this value is set to ON. Navigation Path: Test > Test Configurator > pass/Fail verdict
Syntax	:SOURce:DATA:TELecom:VERDict:ENABLE?
Response Syntax	<Status>
Response(s)	Status: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:VERD:ENAB ON SOUR:DATA:TEL:VERD:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:TEST:TYPE?

10 *Obsolete SCPI Commands and Parameters*

Obsolete SCPI Commands

This section lists obsolete commands and their replacement when applicable.

Obsolete Command	Replacement Command
SOURce:DATA:TELEcom:HOP:TYPE SOURce:DATA:TELEcom:HOP:TYPE? SOURce:DATA:TELEcom:LOP:TYPE SOURce:DATA:TELEcom:LOP:TYPE?	SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE SOURce:DATA:TELEcom:SDHSonet:MULTiplex:TYPE?
SOURce:DATA:TELEcom:TAPplication:TEST:TYPE SOURce:DATA:TELEcom:TAPplication:TEST:TYPE?	SOURce:DATA:TELEcom:TEST:TYPE SOURce:DATA:TELEcom:TEST:TYPE?
SOURce:DATA:TELEcom:PACKetsync:TEST:PTP SOURce:DATA:TELEcom:PACKetsync:TEST:PTP?	
SOURce:DATA:TELEcom:PACKetsync:TEST:SYNCe SOURce:DATA:TELEcom:PACKetsync:TEST:SYNCe?	
SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:ENABLE SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:ENABLE?	SOURce:DATA:TELEcom:ETHernet:FEC:ENABLE SOURce:DATA:TELEcom:ETHernet:FEC:ENABLE?
SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:ENABLE SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:ENABLE?	SOURce:DATA:TELEcom:ETHernet:FEC:DSER:ENABLE SOURce:DATA:TELEcom:ETHernet:FEC:DSER:ENABLE?
SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:ACTivate SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:ACTivate?	SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:ACTivate SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:ACTivate?
SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:DEACTivate SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:DEACTivate?	SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:DEACTivate SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:DEACTivate?
SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:INTERval SOURce:DATA:TELEcom:ETHernet:HRATe:FEC:DSER:THReshold:INTERval?	SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:INTERval SOURce:DATA:TELEcom:ETHernet:FEC:DSER:THReshold:INTERval?
SOURce:DATA:TELEcom:PRIMary:PORT SOURce:DATA:TELEcom:PRIMary:PORT?	SOURce:DATA:TELEcom:PORT SOURce:DATA:TELEcom:PORT? and SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver SOURce:DATA:TELEcom:ETHernet:PORT:TRANsceiver?

Obsolete SCPI Commands and Parameters

Obsolete SCPI Commands

Obsolete Command	Replacement Command
SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING?	:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICK:PING?
These commands have been replaced but are still working: SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity :SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZ E :SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:D EFault
SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP? SOURce:DATA:TELecom:FETHernet:OH:PHY:MAP?	SENSe:DATA:TELecom:FETHernet:OH:FMAP? SOURce:DATA:TELecom:FETHernet:OH:FMAP?
:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDReSS:IP :SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDReSS:IP ?	No replacement, EXFO Worx Interop operation mode is no longer supported
:SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated :SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated :SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated? :SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated :SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?
FETCh:DATA:TELecom:FETHernet:POAM:APS:REQState:RECEived?	:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECEived? :FETCh:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:RECEived?

Obsolete Parameters

This section lists obsolete parameters and their replacement when applicable.

Command	Obsolete Parameter(s)	Replacement Parameter(s)
INPut:TELecom:COUtput:SOURce INPut:TELecom:COUtput:SOURce?	CFP4_TX_MCLK	TX_MCLK
	INTERNAL	INT_DIV8
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory? :FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:SEConds? :FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:CURRent? :FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNT? :FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:RATE?	BBER	B1
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:HISTory? :FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds? :FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:CURRent? :FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUNT? :FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE?	BBER	B2
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:HISTory? :FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds? :FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent? :FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNT? :FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:RATE?	BBER	B3
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:COUNT? :FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:CURRent? :FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:HISTory? :FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:RATE? :FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:SEConds? :FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNT? :FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent? :FETCh:DATA:TELecom:OTN:ERRor:FEC:HISTory? :FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE? :FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds? :SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE :SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE? :SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE :SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?	FCSymb	PFSYMB
:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODE :SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODE?	EXFOWORXinterop	No replacement
	DTS	RFC6349DTS

11 *SCPI Script Samples*

This section gives SCPI script samples of OTN and EtherBERT test setup and results.

OTN BERT Script Sample for FTBx-88200NGE

Creation of the script step by step:

1. Begin Script

BEGIN

2. Initialization

*CLS

LINS1:SOUR:DATA:TEL:FACT:REST:DEF

3. Test Selection

LINS1:SOUR:DATA:TEL:TEST:TYPE OTNBERT

4. Interface/Rate and Connector

LINS1:SOUR:DATA:TEL:ITyE LANE4X25

LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN QSFPP2

5. Test Structure Parameters

LINS1:SOUR:DATA:TEL:OTN:FRAM FRAM

LINS1:SOUR:DATA:TEL:ODU:TYPE O4

LINS1:SOUR:DATA:TEL:OTN:CLI PATTERN

LINS1:SOUR:DATA:TEL:TOP COUPLED

6. BERT Parameters

LINS1:SOUR:DATA:TEL:PATT:TYPE PRBS2E31

LINS1:SOUR:DATA:TEL:PATT:TYPE?

LINS1:SENS:DATA:TEL:PATT:THR:RATE 1.0E-14

LINS1:SENS:DATA:TEL:PATT:THR:RATE?

7. Start Test

LINS1:SOUR:DATA:TEL:TEST ON

SCPI Script Samples

OTN BERT Script Sample for FTBx-88200NGE

8. Error Injection

Bit Error

```
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO?
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:INJ
```

BIP-8 Error

```
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:MAN:TYPE OBIP8
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:AMO 15
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:AMO?
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:INJ
```

FEC Correctable Codeword Error

```
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:AMO?
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:INJ
```

9. Alarm Injection

LOS (Loss of Frame) alarm

```
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4:TYPE LOF
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4 ON
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4 OFF
```

10. Alarms/Errors Detection and Statistics

Pattern Loss Alarm

```
LINS1:FETC:DATA:TEL:PATT:ALAR:PATT:HIST? PLOS
```

Bit Error Rate

```
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:COUN? BIT
```

BIP-8 Error

LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:COUNT? OBIP8

LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:RATE? OBIP8

LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:CURREN? OBIP8

FEC Correctable Codeword Error

LINS1:FETC:DATA:TEL:OTN:ERR:FEC:COUN? FCCW

LOS (Loss of Frame) alarm

LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:CURREN? LOF

LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:HIST? LOF

LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:SEC? LOF

11. Stop Test

LINS1:SOUR:DATA:TEL:TEST OFF

12. End Script

END

SCPI Script Samples

OTN BERT Script Sample for FTBx-88200NGE

Complete script for copy/past purposes

```
BEGIN
*CLS
LINS1:SOUR:DATA:TEL:FACT:REST:DEF
LINS1:SOUR:DATA:TEL:TEST:TYPE OTNBERT
LINS1:SOUR:DATA:TEL:ITYe LANE4X25
LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN QSFP2
LINS1:SOUR:DATA:TEL:OTN:FRAM FRAM
LINS1:SOUR:DATA:TEL:ODU:TYPE O4
LINS1:SOUR:DATA:TEL:OTN:CLI PATTERN
LINS1:SOUR:DATA:TEL:TOP COUPLED
LINS1:SOUR:DATA:TEL:PATT:TYPE PRBS2E31
LINS1:SOUR:DATA:TEL:PATT:TYPE?
LINS1:SENS:DATA:TEL:PATT:THR:RATE 1.0E-14
LINS1:SENS:DATA:TEL:PATT:THR:RATE?
LINS1:SOUR:DATA:TEL:TEST ON
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO?
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:INJ
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:MAN:TYPE OBIP8
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:AMO 15
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:AMO?
LINS1:SOUR:DATA:TEL:OTN:ERR:OTU4:INJ
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:AMO?
LINS1:SOUR:DATA:TEL:OTN:ERR:FEC:INJ
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4:TYPE LOF
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4 ON
LINS1:SOUR:DATA:TEL:OTN:ALAR:OTU4 OFF
LINS1:FETC:DATA:TEL:PATT:ALAR:PATT:HIST? PLOS
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:COUNT? BIT
LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:COUNT? OBIP8
```

```
LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:RATE? OBIP8
LINS1:FETC:DATA:TEL:OTN:ERR:OTU4:CURR? OBIP8
LINS1:FETC:DATA:TEL:OTN:ERR:FEC:COUN? FCCW
LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:CURR? LOF
LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:HIST? LOF
LINS1:FETC:DATA:TEL:OTN:ALAR:OTU4:SEC? LOF
LINS1:SOUR:DATA:TEL:TEST OFF
END
```

EtherBERT Script Sample for FTBx-88200NGE

Creation of the script step by step:

1. Begin Script

BEGIN

2. Initialization

*CLS

LINS1:SOUR:DATA:TEL:FACT:REST:DEF

LINS1:CONF:WAIT:TIME 5000

3. Test Selection

LINS1:SOUR:DATA:TEL:TEST:TYPE EBERT

LINS1:CONF:WAIT:TIME 5000

4. Modify Structure

Interface/Rate, Connector, and PHY Type

LINS1:SOUR:DATA:TEL:ITYP LANE4X25

LINS1:SOUR:DATA:TEL:ITYP?

LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN QSFPP2

LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN?

LINS1:SOUR:DATA:TEL:ETH:PHY:TYPE SR4

LINS1:SOUR:DATA:TEL:ETH:PHY:TYPE?

Framing

LINS1:SOUR:DATA:TEL:ETH:BERT:FRAM?

5. Laser ON/OFF

LINS1:OUTPUT:TEL:LAS ON

LINS1:OUTPUT:TEL:LAS?

6. EtherBERT Parameters

LINS1:SOUR:DATA:TEL:PATT:TYPE PRBS2E11

LINS1:SOUR:DATA:TEL:PATT:TYPE?

LINS1:SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1,128

LINS1:SOUR:DATA:TEL:ETH:STR:RATE 80

LINS1:SOUR:DATA:TEL:ETH:STR:RATE?

LINS1:SOUR:DATA:TEL:ETH:STR:TX:STAT ON

LINS1:SOUR:DATA:TEL:ETH:STR:TX:STAT?

7. Start Test

LINS1:SOUR:DATA:TEL:TEST ON

LINS1:SOUR:DATA:TEL:TEST?

8. Error Injection

Bit Error

LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT

LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25

LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:INJ

LINS1:CONF:WAIT:TIME 5000

9. Alarms/Errors Detection and Statistics

Bit Error

LINS1:FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT

LINS1:FETC:DATA:TEL:PATT:ERR:PATT:COUN? BIT

10. Stop Test

LINS1:SOUR:DATA:TEL:TEST OFF

11. End Script

END

SCPI Script Samples

EtherBERT Script Sample for FTBx-88200NGE

Complete script for copy/past purposes

```
BEGIN
*CLS
LINS1:SOUR:DATA:TEL:FACT:REST:DEF
LINS1:CONF:WAIT:TIME 5000
LINS1:SOUR:DATA:TEL:TEST:TYPE EBERT
LINS1:CONF:WAIT:TIME 5000
LINS1:SOUR:DATA:TEL:ITYP LANE4X25
LINS1:SOUR:DATA:TEL:ITYP?
LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN QSFP2
LINS1:SOUR:DATA:TEL:ETH:PORT:TRAN?
LINS1:SOUR:DATA:TEL:ETH:PHY:TYPE SR4
LINS1:SOUR:DATA:TEL:ETH:PHY:TYPE?
LINS1:SOUR:DATA:TEL:ETH:BERT:FRAM?
LINS1:OUTPUT:TEL:LAS ON
LINS1:OUTPUT:TEL:LAS?
LINS1:SOUR:DATA:TEL:PATT:TYPE PRBS2E11
LINS1:SOUR:DATA:TEL:PATT:TYPE?
LINS1:SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1,128
LINS1:SOUR:DATA:TEL:ETH:STR:RATE 80
LINS1:SOUR:DATA:TEL:ETH:STR:RATE?
LINS1:SOUR:DATA:TEL:ETH:STR:TX:STAT ON
LINS1:SOUR:DATA:TEL:ETH:STR:TX:STAT?
LINS1:SOUR:DATA:TEL:TEST ON
LINS1:SOUR:DATA:TEL:TEST?
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
LINS1:SOUR:DATA:TEL:PATT:ERR:PATT:INJ
LINS1:CONF:WAIT:TIME 5000
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT
LINS1:FETC:DATA:TEL:PATT:ERR:PATT:COUN? BIT
LINS1:SOUR:DATA:TEL:TEST OFF
END
```

42.0.0.1

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