

EXFO EXCHANGE – EXFO APIs

Connecting your systems for seamlessly automated tests



What is an API?

An application programming interface (API) is a digital bridge that allows different software systems to talk to each other. Instead of manually copying data between platforms or using outdated exports, APIs enable real-time, structured, and secure exchanges of information—automatically.

EXFO uses open REST APIs, one of the most widely adopted standards in the industry, to let you connect EXFO Exchange to your existing systems: inventory databases, workforce management tools, ERP software, and more.

Why use APIs?

With EXFO's APIs, you can **automate your operations**:

- **Define work automatically** in your system and push test jobs directly to field testers.
- **Pull test results in real time**, as soon as they are uploaded to the cloud.
- **Update your internal systems** instantly with results, pass/fail verdicts and timestamps—without human intervention.

Two common API use cases

1. Automated job creation

Traditionally, network planners export job lists manually and upload them into EXFO Exchange. This often involves:

- Creating or exporting spreadsheets from their existing system.
- Review content and adjust formatting.
- Importing manually via the web app.

With the API, you can **skip the manual steps**:

- Your system defines the jobs (e.g., in standard JSON format).
- The API pushes jobs directly to EXFO Exchange and optionally assigns them to the right contractor or technician.
- Jobs appear instantly on the web portal and any test units or smartphones connected to EXFO Exchange, ready for field completion.



Customers no longer need to export CSVs or download result files to transfer data from one system to another —our APIs take care of all that.

2. Real-time test result extraction

As soon as a test is completed:

- Results are uploaded to the cloud.
- Your system can call the API on a recurring basis, according to your needs.
- Data is automatically retrieved, structured, and integrated into your network management tools.

This replaces manual steps like exporting, downloading, or reformatting files—saving time and ensuring no data is lost in transit.

Key benefits of EXFO APIs

- **Open REST architecture:** Easily integrates with any third-party system or custom-built platform.
- **Business process automation:** Reduce errors, save time, and lower operational costs by eliminating manual tasks.
- **Real-time visibility:** Access test results instantly—no more waiting for daily updates or batch exports.
- **Simplified workflow integration:** Automatically feed test outcomes into your own inventory, network, or ticketing system.

FEATURES	APIS	DATA MART
Speed	Real-time	Updated daily or hourly
Data type	Raw JSON data	Structured data for analysis
Use case	Operational automation	Strategic and mid-term analytics
Effort	Requires developer effort	No development needed
Typical users	IT teams, system integra-tors	Analysts, managers

Built for developers—backed by EXFO

EXFO APIs are designed for teams with basic coding knowledge (e.g., working with JSON). Whether you have in-house developers or rely on integrators, our team supports you every step of the way.

Ready to simplify your workflows and boost productivity?

Let EXFO APIs do the heavy lifting—so your team can focus on results.

APIs are available as part of an EXFO Exchange subscription to support full system integration and automation.

Contact us to learn how EXFO Exchange can help connect your environment and accelerate your operations.

FROM DATA TO DECISIONS

Max out **EXFO Exchange** with our solution briefs:



EXFO data marts

Actionable insights from field test data



EXFO APIs

Connecting your systems for seamlessly automated tests



Smarter job management

For fiber-optic deployment projects



Results management

Centralized test result collection for visibility and efficiency



PON ID validation

End-to-end continuity and accuracy during XG(S)-PON build validation



Organization vs. Workspace

User access, roles, and best practices for collaboration