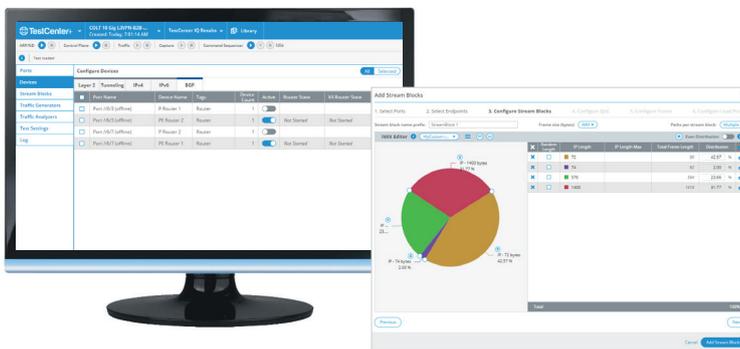


# Next-Generation Web-Based Testing with TestCenter+

TestCenter+ is the new web-based user interface for VIAVI TestCenter, capable of driving all versions of the solution, from hardware-based chassis and appliances to virtual applications. This user-centric environment features modern web-based techniques alongside familiar TestCenter workflows, enabling users to enhance testing productivity and maximize return on investment in test infrastructures.



## Benefits

- Run TestCenter test cases with nothing more than a browser
- Accelerate testing cycles and boost productivity with user-centric design and familiar workflow
- Actionable analytics and intuitive reporting for root cause analysis and improved results insights
- Shared, hosted environment for ultimate flexibility to test whenever and wherever users need it
- Ease of deployment and maintenance for maximized resource utilization

## Overcoming Challenges in Lab Testing Environments

Due to mounting security considerations, lab managers and their teams are faced with increasingly restricted networking environments and IT policies. They need to overcome challenges daily to deliver on project KPIs while keeping testing cycles efficient. Some of the most common obstacles in lab testing include:

- Repetitive, time-consuming test case setup
- Lack of collaboration capabilities across users and test cases
- Poor resource utilization and productivity
- Lack of visibility into test resources, progress and results
- Hard to interpret results (pages of results vs analytics tools)

This is driving the need to remove standalone client applications from users' computers and offer access to test solutions in a shared, hosted environment with centralized common functions. Such installations are easier to maintain and deliver to end users, thus helping to reduce maintenance costs.

## Benefits of TestCenter+ Next-Gen Web-Based Testing

The web-based TestCenter+ environment helps resolve daily challenges in lab testing by offering **ultimate flexibility to test whenever, wherever and however** users need it. This provides **OS platform independence and reduced maintenance costs**, as individual platform licenses and upkeep are no longer required.

In addition, operation in a shared, hosted environment allows for **maximizing resource utilization** of costly test resources and fostering collaboration among various teams.

**Ease of deployment** in restrictive IT and networking environments and a familiar workflow for existing TestCenter users is a huge plus, helping to reduce errors and accelerate testing cycles. The **efficient central provisioning** and management of resources, such as test hardware, firmware, software licenses and test case artifacts, will help further boost productivity.

Modern web techniques incorporated in the TestCenter+ design offer **enhanced user experiences**, enabling lab managers and test engineers to turn up test environments in minutes, instead of days.

## TestCenter System Components

VIAVI TestCenter original Windows-based client for complex test configuration and standard results

VIAVI TestCenter IQ's sophisticated user interface framework is designed to improve the tester's efficiency and effectiveness

Automate VIAVI TestCenter using popular languages such as Tcl, Perl and Python, or with advanced tools such as Ttworkbench

Next-generation web-based testing of applications and benchmarking methodologies for analyzing traffic and protocol performance, availability and scale

### Windows Application



### TestCenter IQ



### Automation



### AION Web Applications and Management Framework



VIAVI TestCenter API is a powerful interface for implementing custom test cases in a regression environment, accelerating test case development and increasing team productivity

### Common API & REST API

VIAVI TestCenter's REST API offers flexibility to test and accelerate your innovation with any scripting or programming language, any OS, and either 32- or 64-bit hardware

## VIAVI TestCenter™

Hardware ←---- Platform ----→ Virtual

## Solution Highlights

TestCenter+ is the web-based user interface for TestCenter. By utilizing a shared hosted environment (AION platform), the unified software and services ecosystem delivers ultimate flexibility for lab testing and offers ease of deployment and efficient provisioning.

Modern web techniques, improved tool sets and the intuitive user interface offers enhanced user experiences and provides a major boost to test lab productivity in various networking environments.

The actionable analytics and intuitive reporting provided by TestCenter IQ helps improve testing efficiency and effectiveness through root cause analysis and improved insights, enabling test engineers to go beyond data to actionable intelligence and reap the benefits of next-generation web-based testing.

Users will benefit from the power of end-to-end testing whenever, wherever and however they need it, and will have the ability to manage test scenarios, workspaces, endpoints, license entitlements and applications, all from one centralized, web-based platform.

The screenshot displays the TestCenter IQ interface. On the left, there's a sidebar with navigation options. The main area is divided into several sections: 'Health Indicators' showing a table of system health with green checkmarks; 'Summarized BOP Session Results' with a table of test results; and 'Configure Stream Blocks' with a table of stream blocks. A line graph at the bottom shows a performance metric over time.

Stream Block	Index	Controlled By	Source	Destination
StreamBlock 11-1-1	0	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-2	1	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-3	2	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-4	3	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-5	4	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-6	5	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-7	6	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-8	7	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-9	8	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-1-10	9	generator	FE Router 2 (200.0.1.0/24)	FE Router 1 (100.0.1.0/24)
StreamBlock 11-2-1	0	generator	FE Router 1 (100.0.1.0/24)	FE Router 2 (200.0.1.0/24)
StreamBlock 11-2-2	1	generator	FE Router 1 (100.0.1.0/24)	FE Router 2 (200.0.1.0/24)
StreamBlock 11-2-3	2	generator	FE Router 1 (100.0.1.0/24)	FE Router 2 (200.0.1.0/24)
StreamBlock 11-2-4	3	generator	FE Router 1 (100.0.1.0/24)	FE Router 2 (200.0.1.0/24)
StreamBlock 11-2-5	4	generator	FE Router 1 (100.0.1.0/24)	FE Router 2 (200.0.1.0/24)

TestCenter IQ provides enhanced insights and root cause analysis via Health Indicators and correlated results

The screenshot shows two parts of the TestCenter+ interface. On the left, the 'Add Stream Blocks' wizard is in progress, showing a network diagram with source and destination devices. On the right, the 'Equipment Manager' shows a list of network devices with their specifications and status.

Equipment	Model	Slots	Firmware	Serial Number
c2-auto-kit-04	SPT-C2	1	9.90.0043	7-F5ED1460
n-amara-02	SPT-N11U	12	5.51.2926	E16200194

TestCenter+ intuitive, user-centric design makes managing test scenarios, equipment and licenses easy



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