

VIAVI TestCenter Automation

For AION

Overview

The VIAVI TestCenter Automation provides access to several Application Programming Interfaces (APIs) for test setup, execution and retrieving results. It allows for TestCenter to be easily integrated into user test beds leveraging their automation framework of choice.

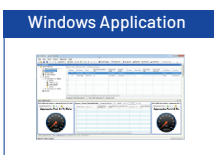
The APIs define a common set of functions that reflect the architecture of other TestCenter Bundles. Since they all share a common architecture and interface, once a user has learned to write a test program for one package, it is easy to write tests for other packages.

TestCenter automation APIs allow access to nearly all the functionality that is available via the standard graphical user interface and enable running tests for virtually unlimited test durations, with access to test configuration and results in real time during execution.

Key Features

- RESTful API – Industry-first on a Layer 2 to Layer 7 test product
- Support for C, C++, C#, Ruby, Java, Python (both native and HLTAPI) and much more, unique to the market
- Native Python – Eliminating the need for Tcl translation
- Robot Framework integration
- High-level APIs (HLTAPI) – For industry-leading coverage
- Full VIAVI TestCenter Functionality – Equivalent to native graphical user interface

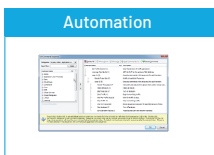
VIAVI TestCenter original Windows-based client for complex test configuration and standard results



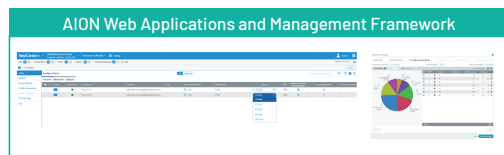
VIAVI TestCenter IQ's sophisticated user interface framework is designed to improve the tester's efficiency and effectiveness



Automate VIAVI TestCenter using popular languages such as Tel, Perl and Python, or with advanced tools such as TT workbench



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



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 and REST API

VIAVI TestCenter™

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



Technical Specifications

Supported APIs	Description
Tcl	
PERL	For BSD and Linux
C	
JAVA	
Python	For Ubuntu Linux and Windows
C++	For Windows
HLTAPI	
Robot	
REST	
API Functions	
apply	Applies a test configuration to the VIAVI TestCenter firmware
config	Sets or modifies the value of an attribute
connect	Establishes a connection with a VIAVI TestCenter chassis
create	Creates an object in a test hierarchy
delete	Deletes an object in a test hierarchy
disconnect	Removes a connection with a VIAVI TestCenter chassis
get	Retrieves the value of an attribute
help	Displays help text in the Tcl window
help list	Extends the help functionality to list and search for config types and commands
log	Writes a diagnostic message to the log file
perform	Invokes an operation
waitUntilComplete	Suspends your application until the sequence of commands has finished executing

About AION

VIAVI AION is a flexible delivery platform that enables users to achieve improved deployment and provisioning for all their cloud and network testing needs. Built with your needs in mind, offering maximum flexibility in acquiring and utilizing VIAVI TestCenter platforms.

The extended platform combines a wealth of industry-leading test solutions with a flexible licensing architecture to support a wide range of next-generation solution-based domain applications.

AION offers a centralized management hub to help leverage software and hardware functionalities across all lab users and locations for a simplified management and decision-making process:

- **Flexible purchasing options** available via subscription, consumption-based, and perpetual plans, with the ability to license different bandwidth, scale, and protocol bundles.
- **Flexible deployment options** offered include cloud-delivery, on-prem, and laptop-hosted licensing services.

Enhanced user serviceability delivers always-on platform services from auto-discovery and inventory management to user and workspace administration, notifications, and log aggregation.



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