VIAVI TestCenter

High-Level Test Application Programming Interface (HLTAPI)

VIAVI implementation of HLTAPI is a higher-level programmatic interface for Tcl, and Python users of the TestCenter application and associated hardware. Consisting of approximately 250 commands, HLTAPI can be used to automate TestCenter quickly and efficiently.

Target Environments

VIAVI HLTAPI implementation is suitable for the following environments:

- Debian 12.5
- Ubuntu 24.04
- Ubuntu 22.04
- Windows 11 Pro 64-bit
- Windows Server 2025
- Windows Server 2022
- TCL 8.6.10
- Python 3.12.2

VIAVI HLTAPI implementation is tested against a representative set of VIAVI hardware.

A more detailed list of features is listed below:

- Session control
- Traffic configuration
- Test configuration
- Test control
- Capture
- 40G/100G/200G/400G/800G port support
- BGPv4, BGPv6
- DHCPv4, DHCPv6, DHCP-PD

Key Benefits

- Accelerates scripting by providing a higher-level interface
- Compresses scripts to fewer lines of code compared to the native API
- Makes coding more maintainable through a consistent paradigm
- Enables code re-use

Key Features

- Provides access to all key areas of TestCenter:
  - Traffic
  - Access
  - VPNs
  - Routing
  - MPLS
  - Results
- Includes over 60 sample scripts
- Updated regularly, approximately three times per year, in conjunction with TestCenter major software releases
- Mix and match HLTAPI code with native API code in the same script
- Fully documented

VIAVI HLTAPI implementation is available to all customers for use with TestCenter.

Ordering Information

Part Number	Description
BPK-1010A	VIAVI TestCenter HLTAPI Base Package A

VIAVI HLTAPI implementation is currently no charge, and is available for download from the Customer Service Center.

- WLAN
- VXLAN/EVPN
- PCEP
- OpenFlow
- Routing Convergence
- RFC 8239
- RFC 2889
- Packet Caputre
- IPTV
- STP
- IGMPv1, IGMPv2, IGMPv3
- IS-IS IPv4, IS-IS IPv6
- LDP IPv4
- MLDv1, MLDv2
- Multicast groups
- OSPFv2, OSPFv3
- OSPF Topology
- Ping
- PIM
- PPPoX/IPv4, PPPoX server, PPP
- RIPv1, RIPv2, RIPng
- RSVP IPv4
- Route flapping for BGP, IS-IS, OSPF, RIP
- Graceful restart for BGP, IS-IS, LDP, OSPF, RSVP
- BFD
- L2TP
- GRE for RSVP, BGP, LDP, OSPF, PIM, RIP
- ATM for BGP, ISIS, OSPF, PPPoX, PPPox server, RIP, ANCP, L2TP, DHCP, DHCP Server
- Ethernet OAM
- Ethernet EFM
- L2/L3 VPN
- MPLS over GRE
- MVPN
- ANCP
- RFC2544, RFC3918
- LACP
- SIP
- Alarms
- FCOE/FIP, FC
- LLDP
- PTP
- Lab Server mode
- 802.1x
- MPLS-TP
- CFM PDUs Capture Filters
- Configure multiple protocols on the same device, including RSVP/IGMP/LDP/RIP/OSPF/ISIS/BGP

Contact Us: +1 844 GO VIAVI | (+1 844 468 4284). To reach the VIAVI office nearest you, visit viavisolutions.com/contact

© 2026 VIAVI Solutions Inc. Product specifications and descriptions in this document are subject to change without notice. Patented as described at viavisolutions.com/patents

tc-hltapi-ds-hse-nse-ae
30194896 900 0226