

# ATTEST details

## Description

Attest - Automated Network Equipment Testing

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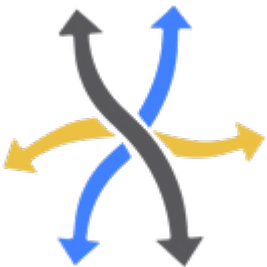
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[ATTEST](#)

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ATTEST details

## Attest Product Highlights



Comprehensive

Verify Compliance To Ieee, Itu-T, Ietf, Mef Etc.



## Affordable & Flexible

Support For Physical (Cots) And Virtual Test Platform – No Need For Expensive Proprietary Hardware



## Automated

One Touch, Centralized, Fully Automated Testing And Smart Diagnostic Solution That Significantly Saves Testing Time

## Equipment Testing Use Cases

### Carrier Ethernet

#### OAM

- CFM (802.1ag)
- L-OAM (802.3ah)
- S-OAM (Y.1731)

#### ☒ Backhaul

- G.8032

## Mef

- CE 2.0
- MEF 3.0

## MPLS - TP

- Data Plane
- G.8131
- G.8113.1

## Timing

- PTPv2 (1EEE 1588)

## Layer 2

### Bridging

- IGMP-Snoop
- LACP
- LLDP
- STP/MSTP/RSTP
- VLAN
- MMRP
- MVRP

## Security

- 802.1X

## Industrial

- MRP
- PRP

## MPLS

- BFD MPLS
- LDP MPLS

## IPv6

### Multicast

- MLD Router
- MLD Listener
- PIM-SMv6
- PIM-DMv6

#### Unicast

- BGP4+
- IPv6 Readylogo -Host
- IPv6 Readylogo -Router
- IPv6 - Tunnels
- ISISv6
- OSPFv3
- RIPng

#### IPv4

##### Multicast

- IGMPv1/v2
- IGMPv3
- PIM-SM
- PIM-DM

##### Unicast

- BFD
- BGP4
- BHCP
- IPv4
- ISIS
- OSPF
- RIP
- EIGRP

##### Security

- NAT
- IPSEC - IKE-v1, v2

ATTEST test suites are based on the Veryx ATTEST Framework – a powerful environment that makes testing and debugging faster and easier. ATTEST Test scripts are written in industry standard Tcl/Tk for automation.

[Download Catalog](#)

### Attest Test Set-Up



### Attest Server

Attest Significantly Speeds-Up The Testing Cycles And Accelerates Product Development. Its Unique Design Results In Minimal Time For Set-Up And Enables Efficient Use Of Time And Resources.

Attest Runs In Any Of The Following Servers Supporting The Required Number Of Ethernet Test Interfaces (Upto 4 Interfaces Based On Test Suite).



### Linux Based Cots Server

A software-only installation of ATTEST server on customer's LINUX based PC. The recommended configuration is x86 hardware, with 4GB RAM, 100GB Hard Disk, 4x1G Ethernet test ports, running LINUX Fedora Core 32.



### Vm-Based Server

A software-only installation of ATTEST server in a VM.



### Veryx Vt-400 Appliance

A compact platform with support for 4x1G test ports (non wire-speed)



## Traffic Generator Platform

Veryx offers a selection of ATTEST test suites in partnership with Xena Networks, for higher accuracy in time sensitive as well as wire-speed testing.

## Attest Client

ATTEST Clients are supported on Windows and Linux workstations.

## Attest Test Framework

ATTEST Test Framework is an integrated testing framework that enables testers to drastically reduce time taken to test. ATTEST has many tester-friendly features such as flexible DUT control, CLI/ GUI-based access, easy debugging and detailed reporting.

[Download Datasheet](#)

## Detailed Use Cases

[Schedule Demo](#)

## Time Synchronization Testing

In Today's Network-Connected World, Precise Clock Synchronization Has Become Essential For Many Applications And Services Such As Mobile, Transportation And Industrial Networks.

Network Switches And Other Devices That Include Ieee 1588V2 Precise Time Protocol (Ptp) Support, Have The Ability To Timestamp Packets At The Hardware Level As They Ingress And Egress Network Ports. Further, Using The Clock Type Hierarchy In A Ptp Network Essentially Removes Or Compensates For Jitter Effects And Internal Delays Created In Ethernet Switches And Maintains Time Synchronization Precision To At Least The Sub-Microsecond Level.

Veryx Attest Ptp Conformance Test Suite Deliver Equipment Manufacturers A Ready-Made And

Automated Solution For Verification Of Ptp Implementation In Their Ethernet Devices, Deployable In Automation And Control Systems, Measurement Systems And Power Distribution Systems.

Attest Ptp Performs Automated Conformance Testing Of Network Devices For Ordinary Clock, Boundary Clock And Transparent Clock Functionality.

Cern, The European Organization For Nuclear Research, Is One Of The World's Largest And Most Respected Centres For Scientific Research, And Is Making Major Contributions In Timing And Synchronization Area. Cern's White Rabbit Compliance Tests Are Based On Veryx Attest Test Suites. For More Information Visit Cern's [Open Hardware Repository \(Ohr\) Project For White Rabbit Compliance Tests](#).

### Switch And Router Testing

Network Switches And Routers Are Present Practically In Any Lan Or Wan Network Today And Are Being Widely Deployed In All Forms Of Connectivity, Whether Wired Or Wire-Less:

- Telcos and ISPs deploy core, edge and access switches using IP, MPLS and Carrier Ethernet technologies across the WAN
- Enterprises use Ethernet switches for LAN connectivity within the facility or campus and routers for connecting to external networks.

Veryx Attest Is The Most Comprehensive And Affordable Solution Available In The Market For Automated Verification Of Layer-2 And Layer 3 Protocols, With Support For

- Carrier-Ethernet (OAM, MEF, MPLS-TP etc.)
- Layer 2 (xSTP, VLAN, LACP, LLDP, 802.1X, etc.)
- IPv4 Unicast (IPv4, RIP, OSPF, BGP, EIGRP etc.) and Multicast (IGMP, PIM-SM, PIM-DM)
- IPv6 Unicast (IPv6, RIPng, OSPFv3, BGP+ etc.) and Multicast (MLD, PIM-Sv6M, PIM-DMv6)
- IP Security (NAT, IPSEC)

### Industrial Ethernet Testing

The Introduction Of Industry 4.0 And Increased Adoption Of Ethernet Based Technologies Across Industrial And Iot Applications. In Addition To Switch And Router Protocols, Industrial Equipment Vendors Are Implementing Specific Protocols Such As Mrp And Prp To Ensure Higher Reliability And Availability.

Veryx Attest Provides A Comprehensive Solution For Automated Verification Of Layer-2 And Layer 3 Protocols Used In Industrial Ethernet Networks.



Mandatory Testing And Certification Of Telecom Equipment (Mtcte) As Per Telecommunication Engineering Center, Dot, India

Attest Tec Bundle Is Used To Verify For Conformance To Mtcte Essential Requirement – Version 2 Annexure P1-P11,Tec/Sd/Dd/Tcp-222/2.9/August2021.

Equipment Vendors Selling In India, As Well As Indian Accredited Labs Designated By Tec, Could Utilise These Ready Tests For Quick Verification Of Conformance To Essential Requirements Such As Ipv4, Ipv6, Tcp, Udp, Nat, Snmp, Rtcp, Rtp, Sip Etc.

Ready To Get Started?

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Resources



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