

Veryx ATTEST™ Layer 2 Functional Test Suite DATASHEET

Veryx ATTEST™-XP Layer 2 Functional Test Suite is a feature-rich automated software testing solution for functional verification of bridging protocols in Fast Ethernet and Gigabit Ethernet Switches.

QUICK FUNCTIONAL ETHERNET SWITCH TESTING

Veryx ATTEST-XP Layer 2 Functional Test Suite is based on ATTEST, a powerful framework that makes testing and debugging faster and easier.

Veryx ATTEST-XP Layer 2 Functional Test Suite performs functional testing of switches supporting STP, RSTP, VLAN, MSTP, 802.1x, LACP and IGMP Snooping. It consists of 171 functionality tests covering key areas such as:

- Valid/Invalid PDU Handling
- Port Roles, Port States, Active Topology and topology changes
- Ingress Egress Rules and Filtering database
- Dynamic VLANs (GVRP) and Static VLANs
- Compatibility / multi version interoperability
- LACP Selection Logic
- Unicast, Multicast, Tagged / untagged handling
- Data Forwarding over aggregated / individual links
- Authenticator / Supplicant PAE operation

The test cases execute in an automated manner in ATTEST - a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

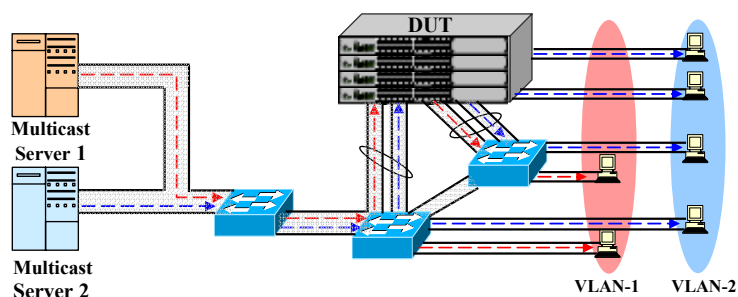


Figure 1. An Example of a Virtual Bridged LAN Test Topology

PROTOCOLS VERIFIED

- STP (IEEE 802.1D-1998)
- RSTP (IEEE 802.1w-2001)
- VLAN (IEEE 802.1Q-2003)
- LACP (IEEE 802.3ad-2000)
- IGMP Snooping (IETF RFC 4541)
- 802.1x (IEEE 802.1X-2001)
- MSTP (IEEE 802.1s-2002)

Related Veryx ATTEST Products:

Functional Test Suites

- * ATTEST-XP Layer 3 IPv4 Unicast
- * ATTEST-XP Layer 3 IPv6 Unicast
- * ATTEST-XP Enterprise Security
- * ATTEST-XP Carrier Ethernet

Conformance Test Suites

- * Layer 2: RSTP, MSTP, VLAN, IGMP Snooping etc.
- * Layer 3: IPv4, OSPF, PIM, IPv6, BFD-MPLS etc.

Contact us for Demo or Evaluation



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About Veryx Technologies

Veryx Technologies (formerly Net-O₂ Technologies) provides innovative Verification and Measurement Solutions for the global communications industry. ATTEST solutions verify networking equipment being used for Access, Carrier Ethernet, Data Center, Edge, Enterprise, Industrial and Security. The unique offerings from Veryx enable customers to reduce the "time-required-to-test" and enhance their "time-to-market".

