Veryx ATTEST™ LLDP Conformance Test Suite DATASHEET

Veryx ATTEST-CTS Link Layer Discovery Protocol (LLDP) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of LLDP implementation in networking devices which support transmission of capabilities and status using LLDP. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST LLDP Conformance Test Suite is designed for conformance testing of Link Layer Discovery Protocol using ATTEST – a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised 196 test cases that comprehensively test for LLDP conformance. These test cases have been grouped into 10 convenient test groups based on the IEEE specifications for each category of functions.

ATTEST 802.1AB LLDP test cases verify the behavior of LLDP agent for transmission of mandatory and optional TLVs in transmit-only and transmit-and-receive-only modes. They verify update of reception counters and neighbor information in receive-only and transmit-and-receive-only modes. The tests verify functions of LLDP agents with nearest bridge, nearest non-TPMR bridge and nearest customer bridge MAC. They also emulate criteria for discarding LLDPDUs received with incorrectly sequenced TLVs or TLVs with errors.
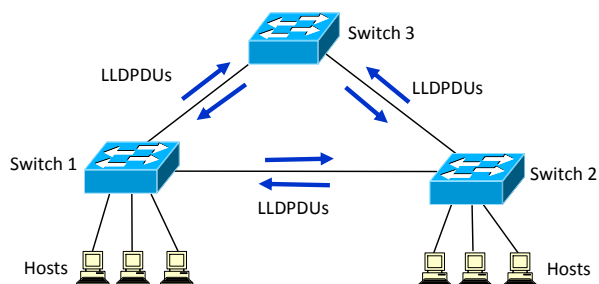
SPECIFICATIONS
IEEE 802.1AB™–2009

IEEE 802.1AB™–2005

LLDP TESTS
* Nearest bridge, nearest non-TPMR bridge, and nearest customer bridge MAC LLDP agent
* LLDPDU Transmit
* LLDPDU Receive
* LLDPDU Basic Management TLV Handling
* LLDPDU 802.1 Organizationally Specific TLV
* LLDPDU 802.3 Organizationally Specific TLV
* LLDPDU Multiple Agent Transmission
* LLDPDU Multiple Agent Reception
* LLDPDU Local Management
* LLDPDU Remote Management
* LLDPDU Frame Format

PLATFORM REQUIREMENTS
* ATTEST 6.x Framework
* ST-1000/XC-1000 with 2 test ports

Figure 1: An example of IEEE 802 Bridged LAN with LLDP enabled switches

ATTEST LLDP Conformance Test Suite is written in industry standard Tcl scripts. Well-defined APIs and source files provide the flexibility to add, customize or modify the test cases for specific requirements.

Together with ATTEST-CTS MSTP, RSTP, LLDP, VLAN and 802.1X Veryx provides one of the most comprehensive solutions for Layer-2 conformance testing. Layer-3 IPv4, BGP4+, ISISv6, RIPng, OSPFv3, IGMPv1v2/v3, PIM-DM/SMv6, Carrier Ethernet and Layer-2 Switch Test suites such as VLAN, RSTP, STP, 802.1X and LACP are also available.

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".

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