

Veryx ATTEST™ STP Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Spanning Tree Protocol (STP) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of STP implementation in Ethernet Switches. ATTEST enables significant speeding-up of testing cycles and enhanced "time-to-market".

ATTEST STP Conformance Test Suite is designed for conformance testing of STP with ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised around 70 test cases that comprehensively test for STP conformance to IEEE 802.1D-1998. These test cases have been grouped into 9 convenient test groups based on the IEEE specification for each category of functions.

ATTEST STP test cases perform conformance testing for various scenarios of active topology and STP port role types.

Port state tests verify for transitions from Blocking to Forwarding states and vice-versa. Data Forwarding and Filtering Database test cases verify for Relay and Filtering behavior.

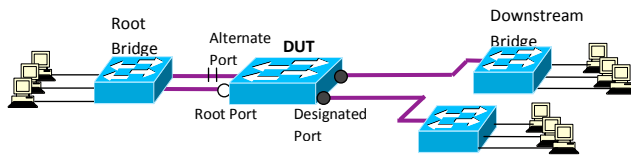


Figure 1. An example of a Bridged Local Area Network supporting STP

SPECIFICATIONS

IEEE 802.1D-1998

STP TESTS

- * Applicant state machine
- * BPDU Format
- * BPDU Handling
- * Active Topology
- * Port Roles
- * Port States
- * Filtering Database
- * Data Forwarding
- * Topology Change
- * Bridge Management

PLATFORM REQUIREMENTS

- * ATTEST 6.x Framework
- * 3 Ethernet ports
- * Serial or additional Ethernet port for DUT management

ATTEST STP Test Suites have been developed 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".

Veryx ATTEST™ is the trademark of Veryx Technologies. All other trademarks of respective owners are acknowledged.

