

Veryx ATTEST™ MSTP Conformance Test Suite DATASHEET



Veryx ATTEST™-CTS Multiple Spanning Tree Protocol (MSTP) automated test suite provides Equipment Manufacturers and Service Providers, an easy and efficient solution for verification of MSTP implementation in Ethernet Switches being deployed for applications in large networks such as Metro Ethernets and Enterprises. ATTEST enables significant speeding-up of testing cycles and enhanced "time-to-market".

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

Veryx has devised over 249 test cases that comprehensively test for MSTP conformance to IEEE Standards 802.1s-2002, 802.1Q-2003, 802.1Q-2005. These test cases have been grouped into 12 convenient test groups based on the IEEE specification for each category of functions.

ATTEST MSTP test cases perform conformance testing for both Common and Internal Spanning Tree (CIST) and Multi Spanning Tree Instance (MSTI) scenarios for active topology, port roles and port states. In addition, the test cases support verification with combinations of STP and RSTP situations for compatibility to legacy switches and networks.

ATTEST MSTP test cases perform conformance verification of VLAN related aspects such as Filtering Database, Ingress Egress Rules and Dynamic VLANs using GVRP.

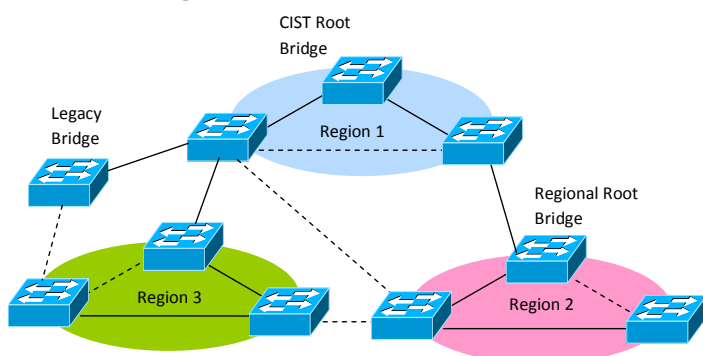


Figure 1. An example of a Bridged Local Area Network showing MSTP functionality

ATTEST MSTP Test Suites have been developed using 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.

SPECIFICATIONS

- IEEE 802.1s-2002
- IEEE 802.1Q™-2003
- IEEE 802.1Q™-2005

MSTP TESTS

- * BPDU Formats
- * BPDU Handling
- * Active Topology
- * Port Roles
- * Port States
- * Topology Change
- * Filtering database
- * Ingress Egress Rules
- * GVRP
- * Data Forwarding
- * STP/RSTP Compatibility
- * Bridge Management

PLATFORM REQUIREMENTS

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

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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