



Veryx ATTEST™ BFD-MPLS Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Bidirectional Forwarding Detection (BFD) for Multiprotocol Label Switching (MPLS) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of BFD-MPLS implementation in carrier Ethernet access and core devices. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST BFD-MPLS Conformance Test Suite is designed for conformance testing of Bidirectional Forwarding Detection in IPv4 networks. ATTEST-CTS BFD-MPLS relies on ATTEST-- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised 83 test cases that comprehensively test for BFD-MPLS conformance. These test cases have been grouped into 4 convenient test groups based on the IETF specifications for each category of functions.

ATTEST BFD-MPLS test cases perform conformance testing for Packet generation, session establishment, and association of the received BFD packets for asynchronous mode based sessions. BFD State Machine changes are also verified by the test cases. Frame format checks and backward compatibility checks are also handled by the test cases.

SPECIFICATIONS

- IETF RFC 5880
- IETF RFC 5884

BFD-MPLS TESTS

- * Packet generation
- * Packet handling
- * State Machine
- * Session Establishment

PLATFORM REQUIREMENTS

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

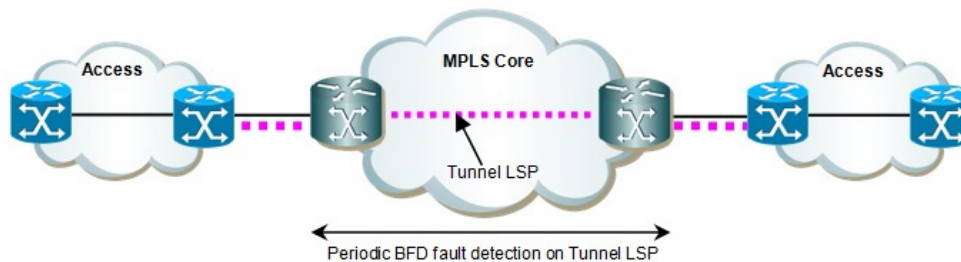


Figure 1. An example of a network supporting BFD-MPLS functionality

ATTEST BFD-MPLS 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 other ATTEST-CTS and ATTEST-XP test suites for IPv4 protocols, Veryx provides one of the widest ranges of test suites for verification of IPv4. Test suites for IPv6, Layer-2 bridging and Carrier Ethernet 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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