



## Veryx ATTEST™ LDP-MPLS Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Label Distribution Protocol (LDP) for Multi-protocol label switching (MPLS) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of LDP-MPLS implementation on Provider Edge and Provider devices. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST LDP-MPLS Conformance Test Suite is designed for conformance testing of Label Distribution 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 436 test cases that comprehensively test for LDP conformance. These test cases have been grouped into 10 convenient test groups based on the IETF specifications for each category of functions.

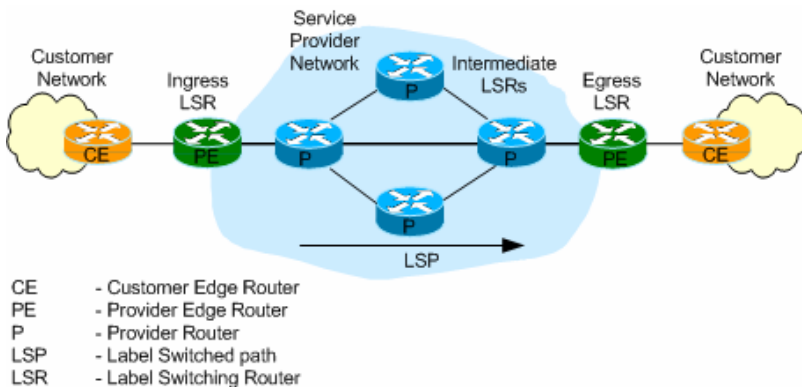


Figure 1. An example of a network supporting LDP

### SPECIFICATIONS

IETF RFC 5036  
IETF RFC 3478  
IETF RFC 5283  
IETF RFC 3815

### LDP-MPLS TESTS

- \* Discovery mechanism
- \* Session Establishment
- \* Session State Machine
- \* Label Distribution and Management
- \* Frame Format
- \* Event Generation
- \* Loop Detection
- \* Message Authentication
- \* Graceful Restart
- \* Inter-Area LSP

### PLATFORM REQUIREMENTS

- \* ATTEST 6.x Framework
- \* 2 Ethernet ports
- \* Serial or additional Ethernet port for DUT management

LDP-MPLS test cases perform conformance testing for discovery, connection establishment, session management, maintenance of adjacency and label distribution for active and passive modes. LDP-MPLS tests verify for the reception and transmission of LDP messages, authentication support, LDP timer negotiation loop detection and event generation. LDP-MPLS tests also verify for LDP State Machine changes and handling of invalid LDP messages. Frame format checks are also handled by the test cases.

ATTEST LDP-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 ATTEST-CTS test suites for Carrier Ethernet OAM and bridging, Veryx provides a wide range of solutions for conformance testing. Comprehensive test suites for Layer-2 bridging and IPv4/IPv6 are also available.

### About Veryx Technologies

Veryx Technologies (formerly Net-O<sub>2</sub> 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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