



Veryx ATTEST™ MLD - Listener Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Multicast Listener Discovery (MLD)– Listener automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of MLDv1/v2 Listener implementation in IPv6 host application enabled devices. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST MLD Listener Conformance Test Suite is designed for conformance testing of the Listener role implementation of Multicast Listener Discovery using ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised 77 test cases that comprehensively test for MLDv1/v2 Listener conformance. These test cases have been grouped into four convenient test groups based on the IETF specifications for each category of functions.

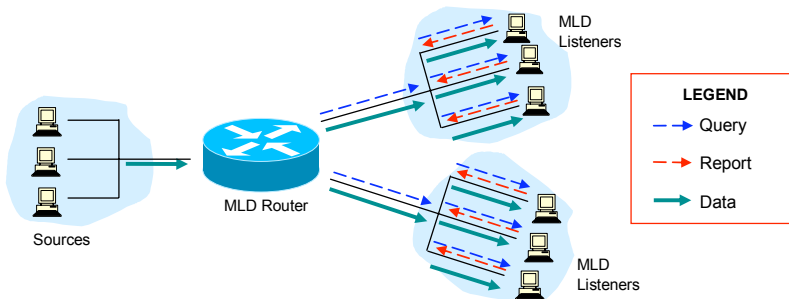


Figure 1. An example of a network supporting MLD

ATTEST MLD Listener test cases perform conformance testing for Multicast Listener functionality, Query handling and interoperation of MLDv2 router with MLDv1 router/listener. Comprehensive tests verify the node behavior change between Non-listener, Delaying Listener and Idle listener simulating the events that cause the state transitions.

The tests verify formats of the various MLD reports that can be generated by an MLDv1/v2 Listener, packet format of MLDv1/v2 messages and the processing behavior of the Listener on receiving invalid MLD messages. ATTEST MLD Listener 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 Test Suites like IPv6 (Basic, Advanced, Tunneling), BGP4+, ISISv6, OSPFv3, PIM-SMv6, PIM-DMv6, and MLD-Router Veryx provides one of the most comprehensive solutions for Layer-3 IPv6 conformance testing. IPv4, Carrier Ethernet and Layer-2 Switch Test Suites such as MSTP, RSTP, STP and VLAN 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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SPECIFICATIONS

IETF RFC 2710
IETF RFC 3810

MLD TESTS

- * Frame Format
- * Group Membership
- * Interoperability
- * Packet Handling

PLATFORM REQUIREMENTS

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