



Veryx ATTEST™ PIM-DM Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Protocol Independent Multicast-Dense Mode (PIM-DM) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of PIM Dense Mode implementation in Ethernet Switches and Routers deployable in IPv4 networks. ATTEST enables significant speeding-up of testing cycles and enhanced "time-to-market".

Veryx ATTEST PIM-DM Conformance Test Suite is designed for conformance testing of Protocol Independent Multicast version 2 – Dense Mode 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 about 90 test cases that comprehensively test for PIM-DM conformance. These test cases have been grouped into 6 convenient test groups based on the IETF specifications for each category of functions.

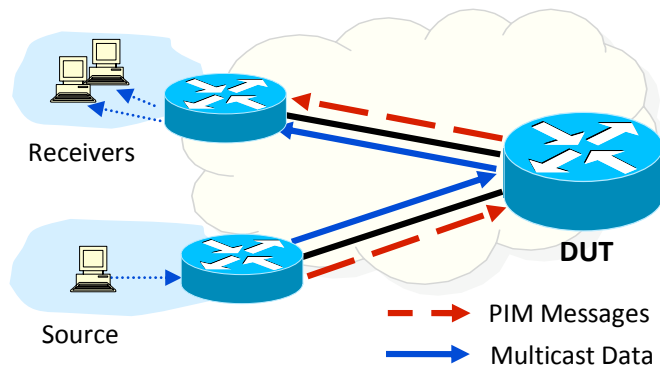


Figure 1. An example of an IPv4 multicast network supporting PIM-DM

SPECIFICATIONS

IETF RFC 3973

PIM-DM TESTS

- * Packet Format
- * Finite State Machine (FSM)
- * Data Forwarding
- * Neighbor Discovery
- * Assert
- * State Refresh Message (SRM)

PLATFORM REQUIREMENTS

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

ATTEST PIM-DM test cases verify for frame formats and neighbor discovery as well as Assert and State Refresh messages. Finite State Machine cases verify transitions of (S, G) downstream and upstream State machines. Data Forwarding behavior is also verified.

ATTEST PIM-DM Conformance Test Suites are 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 PIM-SM, IGMPv1/v2 and IGMPv3, Veryx provides one of the most comprehensive solutions for conformance testing of IPv4 Multicast in Routers and Switches. Layer-2 Switch Test Suites such as RSTP, MSTP 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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