Veryx ATTEST™ IGMPv1/v2 Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Internet Group Multicast Protocol (IGMP) Version 1 / Version 2 automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of IGMP v1/v2 implementation in Ethernet Switches and Routers deployable in IPv4 networks. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST IGMP v1/v2 Conformance Test Suite is designed for conformance testing of IGMP v1/v2 protocol in IPv4 networks. ATTEST IGMPv1/v2 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 over 65 test cases that comprehensively test for IGMP conformance. These test cases have been grouped into 4 convenient test groups based on the IETF specification for each category of functions.
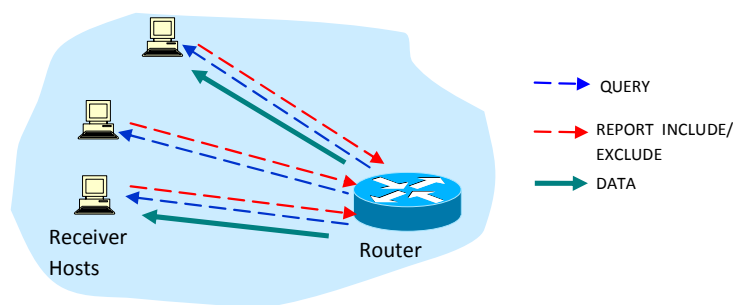

Figure 1. IGMP v1/v2 PDU exchanges between a Router and Hosts

SPECIFICATIONS

IETF RFC 1112

IETF RFC 2236

IGMPv1/v2 TESTS

* Interoperability
* Multicast Router
* Packet Handling
* Query Handling

PLATFORM REQUIREMENTS

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

ATTEST IGMP v1/v2 test cases perform conformance testing for verifying interoperability between IGMP v1 and v2. IGMP messages; in particular, future backwards-compatible versions of IGMP are verified.

The test cases also verify one of two possible states

1. querier, when the router is designated to transmit IGMP membership queries on the network and
2. non-querier, when there is another router designated to transmit IGMP membership queries on this network.

ATTEST IGMP v1/v2 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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