Veryx ATTEST™ IGS
Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Internet Group Management Protocol (IGMP) Snooping automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of IGMP Snooping (IGS) implementation in Ethernet Switches. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST IGS Conformance Test Suite is designed for conformance testing of IGMP Snooping 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 IGMP Snooping conformance. These test cases have been grouped into 3 convenient test groups based on the IETF specifications for each category of functions.

ATTEST IGS test cases verify whether IGMP (version 1, 2 or 3) PDUs and VLAN tagged IGMP PDUs are forwarded according to IGMP Forwarding rules.

Tests also verify that the multicast data forwarding takes place according to the routing information created based on snooped IGMP PDUs.

SPECIFICATIONS
IETF RFC 4541
IETF RFC 1112
IETF RFC 2236
IETF RFC 3376

IGS TESTS
* IGMP Forwarding Rules
* Data Forwarding Rules
* VLAN Tagged IGMP Forwarding Rules

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

IGMP QUERY
IGMP REPORT INCLUDE/ EXCLUDE)
MULTICAST DATA

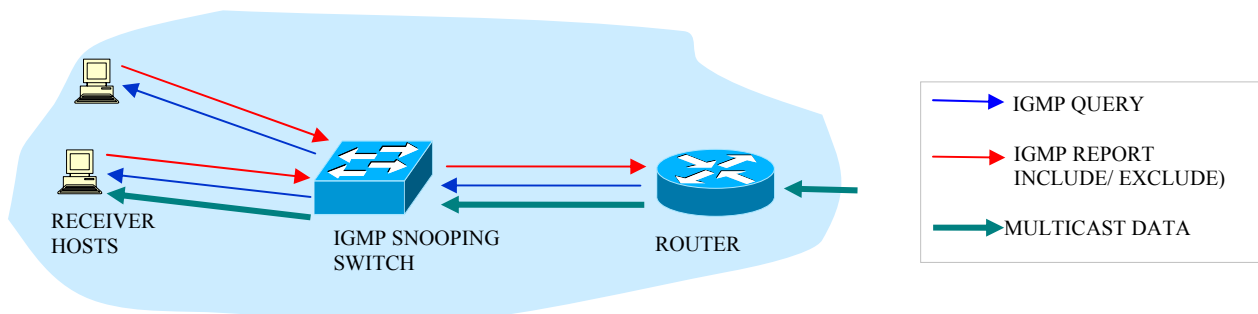RECEIVER HOSTS
IGMP SNOOPING SWITCH
ROUTER

Figure 1. An example of Bridged VLAN network with IGS enabled switch and typical PDU exchanges

ATTEST IGS 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 MSTP, RSTP, LLDP, VLAN and 802.1X, Veryx provides one of the most comprehensive solutions for Layer-2 conformance testing. Layer-3 IPv4, BGP4+, ISISv6, RIPng, OSPFv3, IGMPv1v2/v3, PIM-DM/SMv6, Carrier Ethernet and Layer-2 Switch Test suites such as VLAN, RSTP, STP, 802.1X and LACP 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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