Veryx ATTEST™ IPv4 Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Internet Protocol Version 4 (IPV4) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of IPv4 implementation in IPv4 Routers. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST IPv4 Conformance Test Suite is designed for conformance testing of IPv4 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 120 test cases that comprehensively test for IPv4 conformance. These test cases have been grouped into 6 convenient test groups based on the IETF specifications for each category of functions.

ATTEST IPv4 test cases perform conformance testing for IP Header validation, and verify the fragmentation and reassembly mechanisms of an IPv4 host. ICMP error generation and Echo Request / Reply functionalities are also tested. In addition, the test cases verify the IP addressing and data forwarding behavior of an IPv4 system.

SPECIFICATIONS
IETF RFC 791
IETF RFC 792
IETF RFC 950
IETF RFC 1122
IETF RFC 1812

IPv4 TESTS
* Header Validation
* IP Forwarding
* Data Fragmentation
* Packet Reassembly
* IP Addressing
* ICMP Handling

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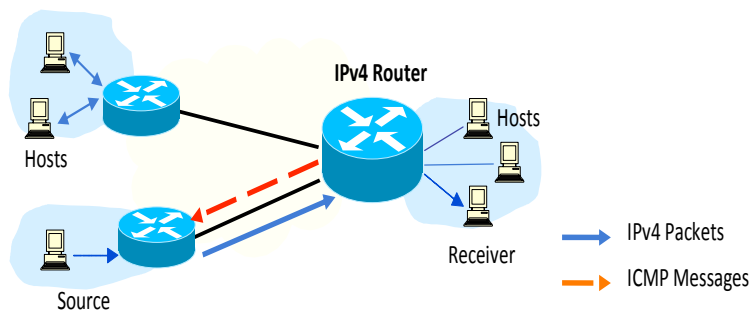* Serial or additional Ethernet port for DUT management

Figure 1. An example of a network supporting IPv4 routers and hosts

ATTEST IPv4 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 OSPF, RIP, BFD-MPLS, BGP4 and ISIS, Veryx provides one of the most comprehensive solutions for Layer-3 version 4 conformance testing. Carrier Ethernet, Layer-3 IPv6 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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