



# Veryx ATTEST™ IPv6 (Tunneling) Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Internet Protocol version 6 (IPv6) Tunneling automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of IPv6 tunneling support in a dual stack router implementation. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST IPv6 (Tunneling) Conformance Test Suite, a companion product of ATTEST IPv6 **Basic** and **Advanced**, is designed for conformance testing of the tunneling features of Internet Protocol version 6 using ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised 88 test cases that comprehensively test for IPv6 (Tunneling) conformance. These test cases have been grouped into 8 convenient test groups based on the IETF specifications for each category of functions.

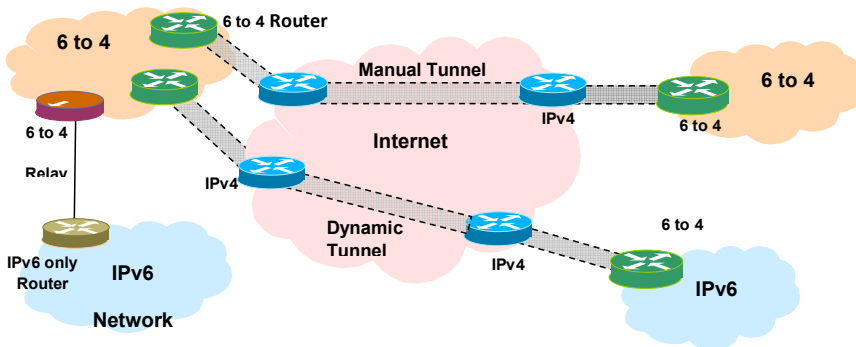


Figure 1: Example network supporting IPv6 Tunnels

IPv6 (Tunneling) test cases verify the Neighbor Discovery Protocol over tunnel interfaces, address selection, specification of anycast 6to4 relay routers, stateless auto-configuration, mapping of IPv6 addresses into IPv4 virtual Link Layer addresses for 6over4 tunneling and compatibility with IPv4-only nodes. In addition, the test cases perform conformance testing for the formation of link-local addresses, 6 to 4 prefix handling, system role in automatic tunneling, fragmentation and decapsulation of tunneled packets. Point-to-point tunnel checks are also handled by the test cases.

ATTEST IPv6 (Tunneling) 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 Advanced and Basic IPv6, MLD, OSPFv3, BGP4+, ISISv6 and PIM-SM/DMv6, Veryx provides one of the most comprehensive solutions for Layer-3 IPv6 conformance testing. Layer 3 IPv4, Carrier Ethernet and Layer-2 Test Suites, such as MSTP, RSTP, STP and VLAN, are also available.

## About Veryx Technologies

Veryx Technologies (formerly Net-O<sub>2</sub> 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 2529
- IETF RFC 2893
- IETF RFC 3056
- IETF RFC 3068

### IPv6 (TUNNELING) TESTS

- \* Virtual Ethernet
- \* Common Tunneling Mechanism
- \* Neighbor Discovery Over Tunnel
- \* Dual Stack
- \* Configured Tunneling
- \* Automatic Tunneling
- \* Tunneling Router Specification
- \* Anycast Relay Router

### PLATFORM REQUIREMENTS

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