



## Veryx ATTEST IPv6-ReadyTest

## Conformance Test Suite DATASHEET

Veryx ATTEST-CTS IPv6-ReadyTest provides equipment manufacturers and service providers an easy and efficient solution to prepare towards IPv6 Ready Logo certification. ATTEST enables significant speeding up of testing cycles and reduces the “time-to-market”.

### SPECIFICATIONS

IETF RFC 2460, 4861, 4862, 1981, 4443, 8200, 4191, 4862 IPv6 Ready Logo Core Protocols test specification for Phase 2 Revision 5.0.1

#### IPv6-ReadyTest TESTS

- ✓ IPv6-Header, Extension Header, Options Fragmentation, Address Resolution and Neighbor Unreachability Detection.
- ✓ Router and Prefix Discovery
- ✓ Redirect function, Address Auto-configuration and Duplicate Address Detection
- ✓ Router Advertisement Processing and Address Lifetime Path MTU discovery
- ✓ ICMPv6 Error message handling
- ✓ Inter-operability testing
- ✓ Router Advertisement with DNS, route Preference and route information option.
- ✓ Atomic and Overlapping Fragments.

#### Overview

ATTEST-CTS IPv6-ReadyTest helps equipment manufactures and device integrators to determine the readiness of their IPv6 host and routing functionalities. It verifies whether the conformance and interoperability of device under test, functions as per IPv6 Forum’s IPv6 Ready Logo recommendation, phase – 2.

Veryx offers a fully automated test suite for verification of both Host and Router implementations. The test suite verifies for optimum compliance by a series of tests, including the “MUST” and the recommended “SHOULD” clause as per the IETF specifications. The test suites are designed to align one to one with IPv6 Ready Logo test specification (core IPv6 Protocols).

ATTEST-CTS IPv6-ReadyTest (Router) test suite contains 328 test cases and IPv6-ReadyTest (Host) suite contains 438 test cases, and these test cases are designed such that it requires minimal effort of integrating ATTEST with the device under test.

ATTEST IPv6-ReadyTest cases verify the Neighbor Discovery Protocol for IPv6, including address resolution, neighbor unreachability detection, Neighbor State Machine maintenance, router specific implementation and handling of Neighbor Discovery packets. In addition, the test cases perform conformance and interoperability testing for IPv6 Path MTU discovery, Stateless Address Auto configuration and Router Alert option.

ATTEST IPv6ReadyTest 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 for IPv6 protocols, Veryx provides one of the widest ranges of test suites for verification of IPv6 functionality. Test suites for Carrier Ethernet, IPv4, and Layer-2 bridging are also available.

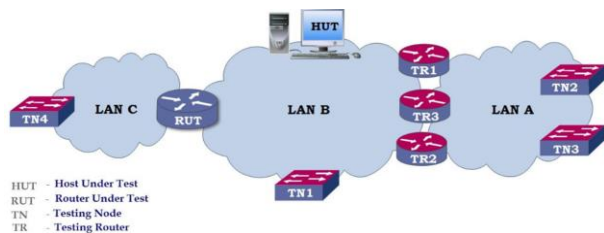


Figure 1: Sample IPv6 Deployment Scenario



## System Requirements

ATTEST Server	ATTEST Client
<ul style="list-style-type: none"><li>• x86 COTS Intel i3 or equivalent</li><li>• 4 GB RAM and 40 GB HDD</li><li>• Operating system: Linux Fedora Core 32</li><li>• Virtual Machine (VMware, VirtualBox, KVM)<ul style="list-style-type: none"><li>◦ 4vCPU, 4 GB RAM, 40 GB HDD</li></ul></li><li>• Xena Valkyrie Compact &amp; Bay Traffic generators</li><li>• NICs: 1 for management, 3 for testing</li></ul>	<ul style="list-style-type: none"><li>• Intel i3 or equivalent</li><li>• 4 GB RAM and 100 MB disk space</li><li>• Operating system supported:<ul style="list-style-type: none"><li>◦ Microsoft Windows 7/8/10</li><li>◦ Linux Fedora 13/20/32</li></ul></li></ul>

## Ordering Information

Product	Part Number
ATTEST-CTS IPv6ReadyTest-Host	IPv6ReadyTest-IPv6RTH-B
ATTEST-CTS IPv6ReadyTest-Router	IPv6ReadyTest-IPv6RTR-B

### 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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Email : [info@veryxtech.com](mailto:info@veryxtech.com)

Web : [www.veryxtech.com](http://www.veryxtech.com)

USA: +1 267 440 0140

International: +44-203-371-8691

