

IPv6 (Advanced) Conformance Test Suite

The Net-O₂ ATTEST™ Internet Protocol version 6 automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of IPv6 router implementation. ATTEST enables significant speeding up of testing cycles and reduces the “time-to-market”.

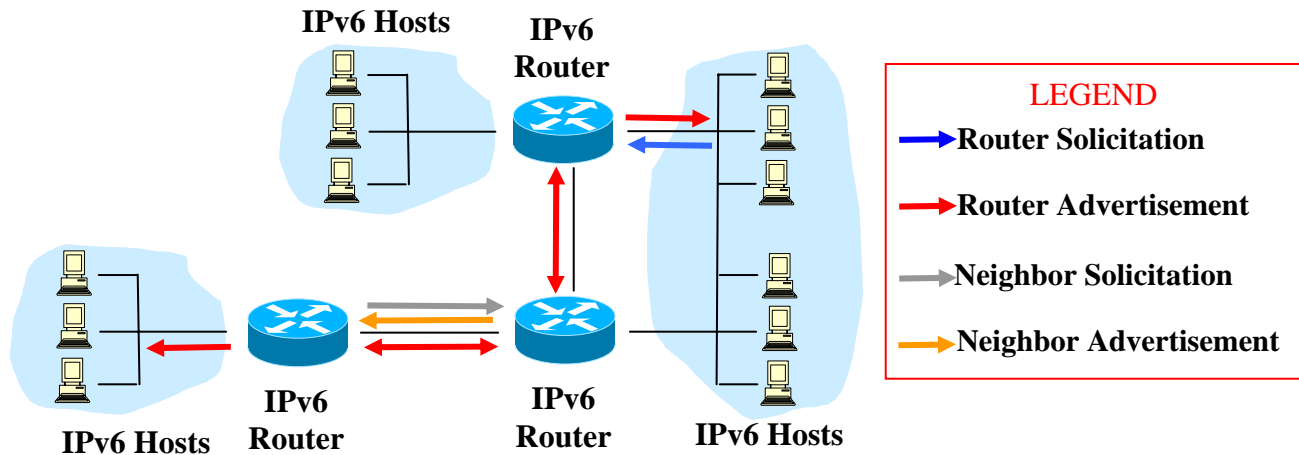


Figure 1. Example Network supporting IPv6 Neighbor Discovery

Product Overview

ATTEST IPv6 (Advanced) Conformance Test Suite, a companion product of ATTEST IPv6 Basic, is designed for conformance testing of the advanced 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.

Net-O₂ has devised about 219 test cases that comprehensively test for IPv6 (Advanced) conformance. These test cases have been grouped into 9 convenient test groups based on the IETF specifications for each category of functions.

IPv6 (Advanced) tests

- ❖ Neighbor Discovery
- ❖ Packet Handling
- ❖ Neighbor Information
- ❖ Packet Validation
- ❖ Router Specification
- ❖ Host Specification
- ❖ Path MTU
- ❖ Address Resolution & Neighbor Unreachability Detection
- ❖ Neighbor State Machine
- ❖ Stateless Address Autoconfiguration
- ❖ Router Alert

ATTEST IPv6 test 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 testing for IPv6 Path MTU discovery, Stateless Address Autoconfiguration and Router Alert option.

ATTEST IPv6 (Advanced) 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 IPv6 Basic, Net-O₂ provides a comprehensive solution for IPv6 router conformance testing. Carrier Ethernet, IPv4 and Layer-2 bridging Test Suites are also available.

Specifications

- ❖ IETF RFC 1981
- ❖ IETF RFC 2461
- ❖ IETF RFC 2462
- ❖ IETF RFC 2711

Minimum Platform

- ❖ ATTEST 4.x or 6.x Framework
- ❖ 4 Ethernet ports
- ❖ Serial or additional Ethernet port for DUT management

ABOUT Net-O₂ TECHNOLOGIES

Net-O₂ is an innovative communications products company that provides solutions in the Testing and Test Automation domains. The unique offerings from Net-O₂ enable customers to drastically reduce the “time-required-to-test” and enhance their “time-to-market”. Net-O₂ offers a wide range of automated test suites to address IP Protocols, Layer 2 Protocols and related standards.

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