

IPv6 (Basic) Conformance Test Suite

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

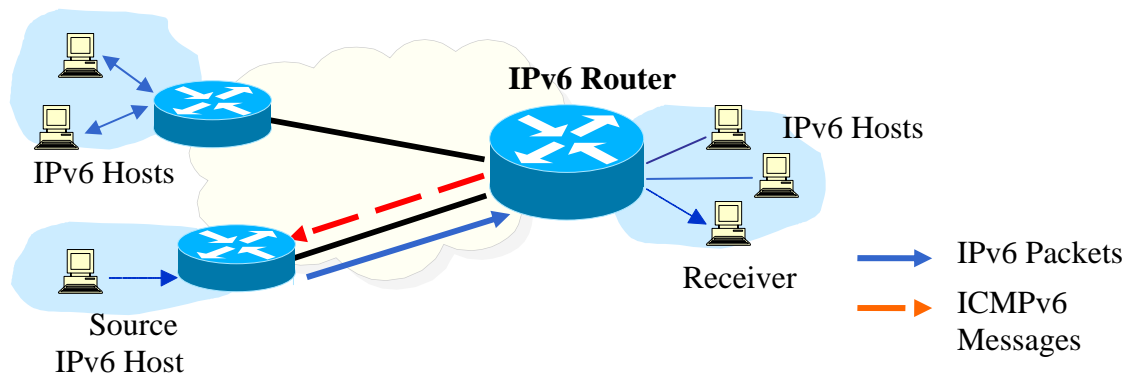


Figure 1. Example Network supporting IPv6

Product Overview

ATTEST IPv6-B *Conformance Test Suite* is designed for conformance testing 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 140 test cases that comprehensively test for IPv6 conformance. These test cases have been grouped into 5 convenient test groups based on the IETF specifications for each category of functions.

IPv6 tests

- ❖ Header Validation
- ❖ Data Fragmentation
- ❖ Fragment Reassembly
- ❖ IPv6 over Ethernet
- ❖ ICMPv6 Handling

Specifications

- ❖ IETF RFC 2460
- ❖ IETF RFC 2463
- ❖ IETF RFC 2464

ATTEST IPv6-B test cases perform conformance testing for IPv6 Header validation, and verify the fragmentation and reassembly mechanisms of an IPv6 host. ICMPv6 error generation and Echo Request / Reply functionalities are also tested.

In addition, the test cases verify the format of IPv6 packets transmitted over Ethernet.

ATTEST IPv6-B 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 IPv4, OSPF, IGMP and PIM, Net-O₂ provides one of the most comprehensive solutions for Carrier Ethernet and Layer-3 conformance testing. Layer-2 Switch Test Suites, such as MSTP, RSTP, STP and VLAN, are also available.

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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