



Veryx ATTEST™ RIPng Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Routing Information Protocol next generation (RIPng) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of RIP implementation in routers deployable in IPv6 networks. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST RIPng Conformance Test Suite is designed for conformance testing of the Routing Information Protocol in IPv6 networks. ATTEST RIPng relies on ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised over 61 test cases that comprehensively test for RIPng conformance. These test cases have been grouped into 6 convenient test groups based on the IETF specifications for each category of functions.

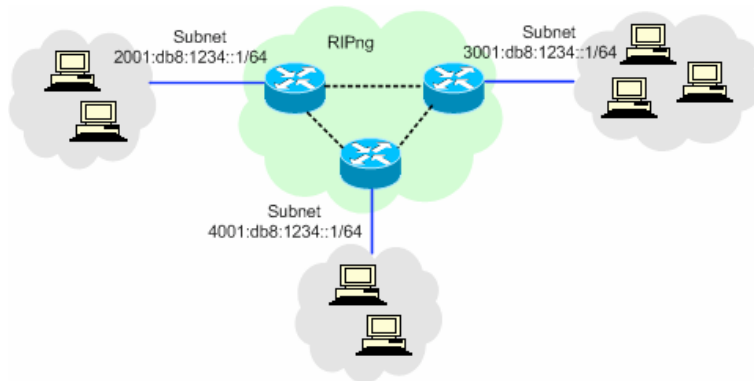


Figure 1. Typical RIPng Topology

SPECIFICATIONS

IETF RFC 2080

RIPng TESTS

- * Control Functions
- * Request/Response Processing
- * Timer Handling
- * Split Horizon
- * Error Handling
- * Data Forwarding
- * Frame Format

PLATFORM REQUIREMENTS

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

RIPng test cases perform conformance testing of the protocol processing functionality of a RIPng router, including the sending of Request/Response messages and routing table updation. The timer handling behavior of periodic timeout and garbage collection timer of a RIPng router is also tested.

In addition, the test cases verify the packet formats, the handling of invalid PDUs, Split horizon feature and the data forwarding behavior a RIPng router.

ATTEST RIPng 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 and ATTEST-XP test suites for IPv6 protocols, Veryx provides one of the widest ranges of test suites for verification of IPv6. Test suites for IPv4, Layer-2 bridging and Carrier Ethernet 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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