Veryx ATTEST™ RIP
Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Routing Information Protocol (RIP) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of RIP v1/ v2 implementation in routers deployable in IPv4 networks. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST RIP Conformance Test Suite is designed for conformance testing of RIP protocol using ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised about 78 test cases that comprehensively test for RIP v1/ v2 conformance. These test cases have been grouped into 8 convenient test groups based on the IETF specifications for each category of functions.
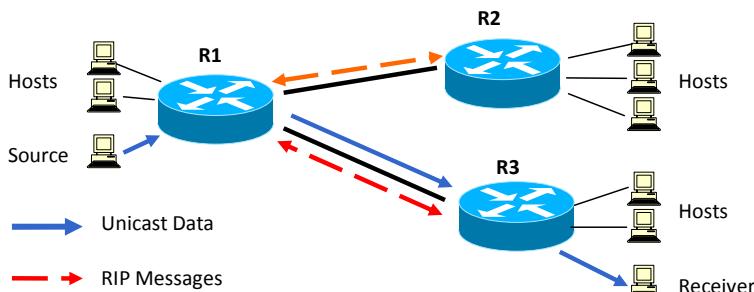

Figure 1. An example of a network topology supporting RIP

SPECIFICATIONS
IETF RFC 1058
IETF RFC 1724
IETF RFC 1812
IETF RFC 2082
IETF RFC 2453

RIP TESTS
* Frame Format
* Protocol Handling
* Timer Handling
* Protocol Processing
* Protocol Extension
* Interoperability/ Compatibility
* Protocol Management
* Data Forwarding

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

ATTEST RIP test cases perform conformance testing for the protocol processing functionality of the DUT, including the sending of Request / Response messages and routing table updation. The timer handling behavior of the DUT is also tested. Tests also verify the RIP v1/v2 interoperability and the protocol extension for RIPv2. In addition, the test cases verify the packet formats, the handling of invalid PDUs and the data forwarding behavior of the router.

ATTEST RIP 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 IPv4, OSPF, BFD-MPLS, BGP4 and ISIS, Veryx provides one of the most comprehensive solutions for Layer-3 version 4 conformance testing. Carrier Ethernet, Layer-3 IPv6 and Layer-2 Switch Test Suites such as MSTP, RSTP, STP and VLAN 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".

Veryx ATTEST™ is the trademark of Veryx Technologies. All other trademarks of respective owners are acknowledged.

Email : info@veryxtech.com

Web : www.veryxtech.com

USA : +1-408-850-1247

International : +44-203-371-8691