Veryx ATTEST™ ISISv4
Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Intermediate System – Intermediate System (ISISv4) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of ISIS implementation in routers deployable in IPv4 networks. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST ISISv4 Conformance Test Suite is designed for conformance testing of the IPv4 version for Intermediate System to Intermediate System routing protocol in IPv4 networks. ATTEST ISISv4 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 200 test cases that comprehensively test for ISISv4 conformance. These test cases have been grouped into 7 convenient test groups based on the ISO/IEC and RFC specifications for each category of functions.
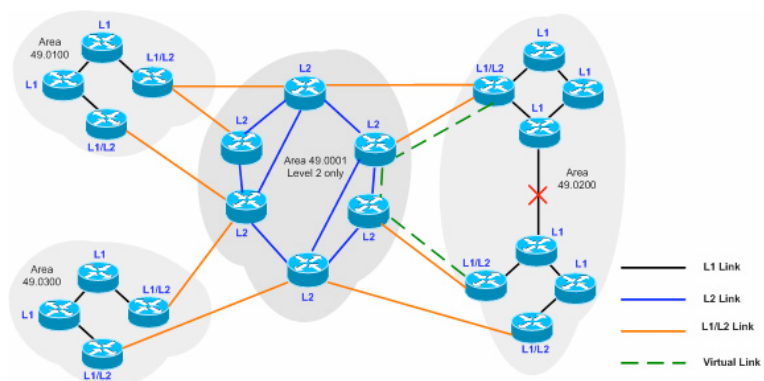
SPECIFICATIONS
ISO/IEC 10589:2002(E)
IETF RFC 1195
IETF RFC 3719
IETF RFC 3787

ISISv4 TESTS
* Adjacencies
* DR Election
* Link state Database Updation
* Link state Database Synchronization
* Route updation
* Error Handling
* Robustness
* Frame Format

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

Figure 1. Typical ISIS enabled network deployment

ATTEST-CTS ISISv4 test cases verify the IPv4 version of IS-IS implemented in a

- Level 1 router
- Level 2 router
- Level 1/Level 2 router

ATTEST-CTS ISISv4 test cases verify the generation and handling of valid and invalid Hello, Link State, Partial and Complete Sequence Number PDUs from the neighboring IS-IS routers in a broadcast network. It also verifies the best path calculation.

ATTEST-CTS ISISv4 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 IPv4 protocols, Veryx provides one of the widest ranges of test suites for verification of IPv4. Test suites for IPv6, 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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