



# Veryx ATTEST™ IPv4-IKEv2 Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS IPv4-IKEv2 automated test suite provides a wide range of test cases to verify the Internet Key Exchange version 2 (IKEv2) implementation in Hosts/Routers/Gateways. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST IPv4-IKEv2 Conformance Test Suite is designed to verify the Key Exchange and Security Association establishment in IPv4 networks. ATTEST IPv4-IKEv2 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 90 test cases that comprehensively test for the IKEv2 conformance. These test cases have been grouped into 8 convenient test groups based on the IETF specifications for each category of functions.

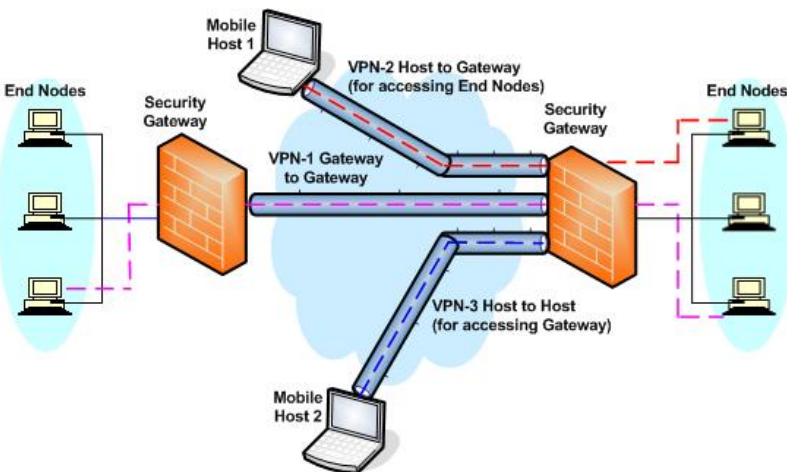


Figure 1. An example of a Typical VPN Topology

ATTEST IPv4-IKEv2 test cases verify the IKEv2 support in both Gateway to Gateway and Host to Host (For accessing security gateway) scenarios. The test cases verify IKE SA establishment (Initiator & Responder) and CHILD SA establishment (Initiator & Responder) conditions. It also verifies CREATE CHILD SA message Exchanges (Initiator & Responder) and Informational Message Exchanges (Initiator & Responder). Tests to verify Rekeying both IKE SA & CHILD SA as well as behavior while handling Error messages are also included.

ATTEST IPv4-IKEv2 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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## SPECIFICATIONS

IETF RFC 4306

IETF RFC 4307

## IPv4-IKEv2 TESTS

- \* IKE roles – Initiator & Responder
- \* Encryption algorithms – 3DES & AES
- \* Hash algorithms – HMAC SHA-1-96 & MD5-96
- \* Authentication Method - PSK
- \* Diffie-Hellman Groups – Group 2 & 14
- \* Rekeying both IKE SA & CHILD SA

## PLATFORM REQUIREMENTS

- \* ATTEST 6.x Framework
- \* 2 Ethernet ports
- \* Serial or additional Ethernet port for DUT management