



Veryx ATTEST™ EFM-OAM Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Ethernet in first mile (EFM) Operations, Administration, and Maintenance (OAM) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of Link OAM implementation in Carrier Ethernet Access devices. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST EFM OAM Conformance Test Suite is designed for conformance testing of 802.3ah Operations, Administration, and Maintenance using ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised 111 test cases that comprehensively test for 802.3ah OAM conformance. These test cases have been grouped into 9 convenient test groups based on the IEEE specifications for each category of functions.

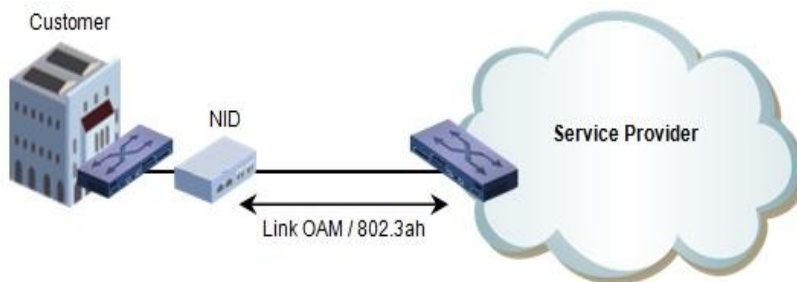


Figure 1. An example of a network supporting 802.3ah OAM

SPECIFICATIONS

IEEE 802.3™ – 2005 Clause 57

EFM-OAM TESTS

- * OAM Frame Format
- * OAM Discovery State Machine
- * Transmit State Machine
- * Multiplexer State Machine
- * Parser State Machine
- * OAM PDU Handling
- * OAM PDU Generation
- * OAM Scalability
- * OAM MIB Variables Handling

PLATFORM REQUIREMENTS

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

ATTEST EFM-OAM test cases verify the generation of OAM Protocol Data Units (PDUs) under various conditions. The tests simulate conditions for generation of variable response OAM PDUs with appropriate error code or appropriate variable indication. The tests also verify the correctness of the format and criteria for discarding of various OAM PDUs like Information OAM PDU, Event Notification OAM PDUs etc. ATTEST EFM-OAM Tests verify reception of variable request and variable response OAM PDU with different parameter settings. The tests are designed for verification of EFM-OAM functionality in both active and passive modes.

ATTEST EFM-OAM 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 ATTEST-CTS CFM, Y.1731 and Provider Bridges, Veryx provides one of the most comprehensive solutions for conformance testing of Carrier Ethernet Switches. Layer 3 IPv4, Layer 3 IPv6 and Layer 2 Test Suites 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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