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Veryx ATTEST™ LACP
Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS IEEE 802.3 - Clause 43: Link Aggregation Control Protocol (LACP) automated test suite provides Equipment Manufacturers and Service Providers, an easy and efficient solution for verification of LACP implementation in Ethernet Switches being deployed for applications in Metro Ethernets and Enterprises. ATTEST enables significant speeding-up of testing cycles and enhanced "time-to-market".

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

Veryx has devised around 80 test cases that comprehensively test for LACP conformance to IEEE 802.3™–2002/2005–Clause 43 (IEEE 802.3ad-2000). These test cases have been grouped into eight convenient test groups based on the IEEE specification for each category of functions.

ATTEST LACP test cases perform conformance testing for Link aggregation group selection logic, Receive State Event machine and Transmit State Event machine functionality as defined in the Link Aggregation Control Protocol. In addition, the test cases support verification of the optional Marker Protocol.

ATTEST LACP test cases support conformance verification when DUT is connected in shared medium networks and in loop-back configurations.
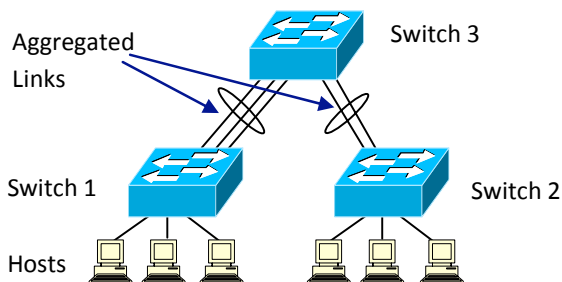
SPECIFICATIONS

IEEE Std 802.3™–2002/2005 Clause 43 (802.3ad-2000)

LACP TESTS

* LACP PDU Formats
* LACP PDU Handling
* LACP Selection Logic
* LACP Transmission State Machine
* LACP Receive State Machine
* Marker Protocol
* LACP Management
* Data Forwarding

PLATFORM REQUIREMENTS

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

Figure 1. An example of Enterprise network with LACP enabled Ethernet Switches

ATTEST LACP Test Suite has been developed using 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 Layer 2 protocols, Veryx provides a wide range of test suites for verification of Layer 2 bridging. Test suites for IPv6, IPv4 and Carrier Ethernet are also available.

About Veryx Technologies

Veryx Technologies (formerly Net-O$_2$ 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".