

Veryx ATTEST™ 802.1X (PNAC) Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS IEEE 802.1X (Port-based Network Access Control) automated test suite provides Equipment Manufacturers and Service Providers, an easy and efficient solution for verification of 802.1X implementation in Ethernet Switches, WLAN Access Points and Clients. ATTEST enables significant speeding-up of testing cycles and enhanced "time-to-market".

Veryx ATTEST 802.1X Conformance Test Suite is designed for conformance testing of 802.1X with ATTEST - a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised about 104 test cases that comprehensively test for 802.1X conformance to IEEE 802.1X™-2004 and IEEE 802.1X-2001. These test cases have been grouped into 6 convenient test groups based on the IEEE specification for each category of functions.

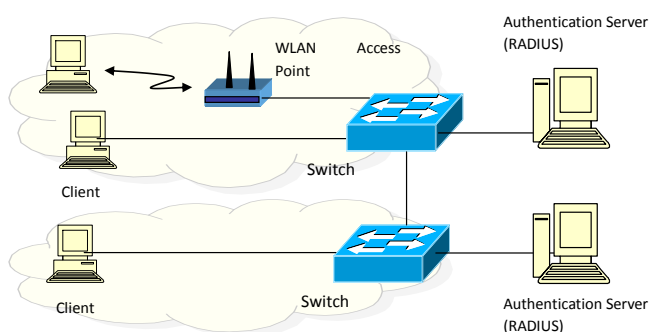


Figure 1: An example of Bridged VLAN network with 802.1X Authentication support

ATTEST 802.1X test suite provides support for testing both Authenticator and Supplicant functionalities, while internally simulating the functionality of a RADIUS Authentication Server.

The test suite includes tests for EAPOL processing scenarios, Port Access Control Management and state machine tests for both Authenticator and Supplicant. It also includes tests to verify Authenticator back end and Supplicant back end state machines, simultaneous support for Authenticator and Supplicant PAE.

ATTEST 802.1X Conformance 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 ATTEST-CTS MSTP, RSTP, LLDP, VLAN and 802.1X Veryx provides one of the most comprehensive solutions for Layer-2 conformance testing. Layer-3 IPv4, BGP4+, ISISv6, RIPng, OSPFv3, IGMPv1v2/v3, PIM-DM/SMv6, Carrier Ethernet and Layer-2 Switch Test suites such as VLAN, RSTP, STP, 802.1X and LACP 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

IEEE 802.1X™-2004

IEEE 802.1X-2001

802.1X TESTS

- * Frame Format
- * EAPOL Packet Processing
- * Supplicant PAE
- * Authenticator PAE
- * Supplicant Access Control with Authenticator
- * Port Access Control Management

PLATFORM REQUIREMENTS

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