Veryx ATTEST™ Provider Bridges Conformance Test Suite DATASHEET

Veryx ATTEST™-CTS Provider Bridges (PB) automated test suite provides Carrier Ethernet Equipment Manufacturers and Service Providers an easy and efficient solution for verification of Provider Edge Bridge implementation in Edge devices of a Carrier Ethernet network. ATTEST enables significant speeding up of testing cycles and reduces the "time-to-market".

Veryx ATTEST PB Conformance Test Suite is designed for conformance testing of Edge bridge functions in a Provider Metro Ethernet networks using ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised about 63 test cases that comprehensively test for Provider Bridges conformance. These test cases have been grouped into 6 convenient test groups based on the IEEE specifications for each category of functions.

ATTEST PB test cases verify the Provider Edge Bridge implementation for the following scenarios:

- C-tagged service implementation
- S-tagged service implementation
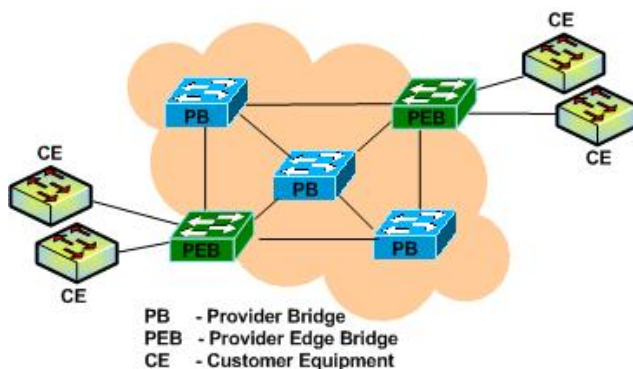- Port based service implementation

SPECIFICATIONS

IEEE 802.1ad™ - 2005

PB TESTS

* Bridge management
* C-VLAN Rapid Spanning Tree
* Data Forwarding
* Frame Format
* Frame handling
* Service Instance Identification

PLATFORM REQUIREMENTS

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

PB   - Provider Bridge
PEB - Provider Edge Bridge
CE   - Customer Equipment

Figure 1. An example of a network showing Provider Bridge deployment

The test cases verify the handling of control PDUs (i.e., LLDP, LACP) and data frames for different C-VLAN, S-VLAN reserved addresses. The enhanced RSTP implementation for the CVLAN component is also verified. Provider Bridges test cases verify the forwarding of tagged and untagged data frames against C-VLAN and S-VLAN based on both filtering database and service associations. The test cases also verify the creation and the maintenance of VLAN translation table entries and CVID registration table entries.

ATTEST PB 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 EFM-OAM, Y.1731 and CFM, 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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