



Veryx ATTEST™ MMRP Conformance Test Suite DATASHEET

Veryx ATTEST Conformance Test Suite (CTS) Multiple MAC Registration Protocol (MMRP) is ideal for equipment manufacturers and Ethernet Service Providers who desire an easy and efficient solution for verification of MMRP (IEEE Std 802.1Q™-2011) implementation in their Ethernet devices, deployable in Ethernet LAN. MMRP allows registration and de-registration of MAC addresses in large LAN.

Veryx has defined test cases that comprehensively test for MMRP conformance to IEEE Std 802.1Q™-2011. These test cases are grouped into convenient test groups for each category of functions.

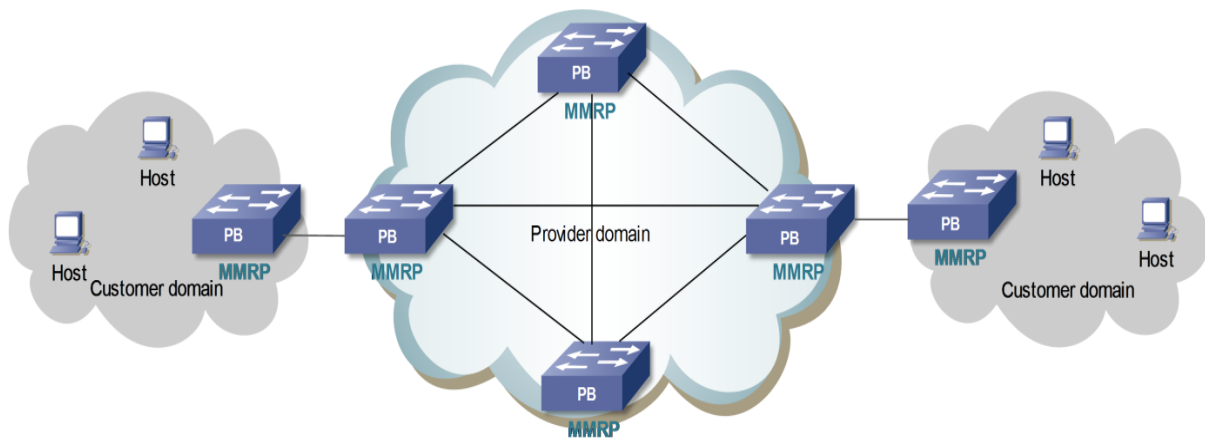


Figure 1: Example of a provider network supporting MMRP

HIGHLIGHTS

- Verifies Dynamic Group membership, Group service and Individual MAC registration and de-registration
- Validates Re-declaration and Flushing of learnt attributes during topology change
- Verifies Participant types, Registrar administrative control and Applicant administrative control
- Validates all State Machines

BENEFITS

- Enables significant speeding up of testing cycles and reduces the "time-to-market"
- Test suites written in industry standard TCL scripts. Well defined APIs provide the flexibility to customize the test cases for specific requirements
- Built in Automation and Reporting Capabilities

SPECIFICATIONS

- ★ IEEE Std 802.1Q™-2011

KEY TESTS

- ★ Applicant state machine
- ★ Registrar state machine
- ★ LeaveAll state machine
- ★ Periodic Transmission state machine
- ★ Registration & de-registration of Group membership, Group service and Individual MACs
- ★ Administrative controls for both Registrar and Applicant
- ★ Re-declaration during topology changes
- ★ Flushing of registered attributes during topology changes
- ★ Management support for MMRP
- ★ MMRP message formats
- ★ Invalid MMRPDU handling

PLATFORM REQUIREMENTS

- ★ VT-400
- ★ ATTEST 6.x Framework

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MMRP (Total test cases – 92)

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| <ul style="list-style-type: none">• MMRPDU format verification• State Machines verification• Registration and de-registration of Group Membership, Group Service and Individual MAC• Timer verification• Configuration support | <ul style="list-style-type: none">• Test is performed for different Participant types – Full and Applicant types• Re-declaration and flushing of learnt attributes during Topology change verification• Administrative controls verification – Registrar and Applicant |
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Veryx ATTEST MMRP is designed for conformance testing of MMRP functions in Ethernet switches.

ATTEST Test Suites are 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.

Veryx ATTEST PTP test solution relies on ATTEST – a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources

Veryx ATTEST Framework helps customers to easily integrate device under test for automation – using CLI / SNMP (v1 / v2 / v3). It also provides a standard interface to integrate with home-grown automation systems.

For more information, kindly visit our website.

ORDERING INFORMATION

PRODUCT	PART NUMBER
ATTEST-CTS MMRP	CTS-MMRP-B

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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Email : info@veryxtech.com

Web : www.veryxtech.com

USA : +1 267 440 0140

International : +44-203-371-8691

