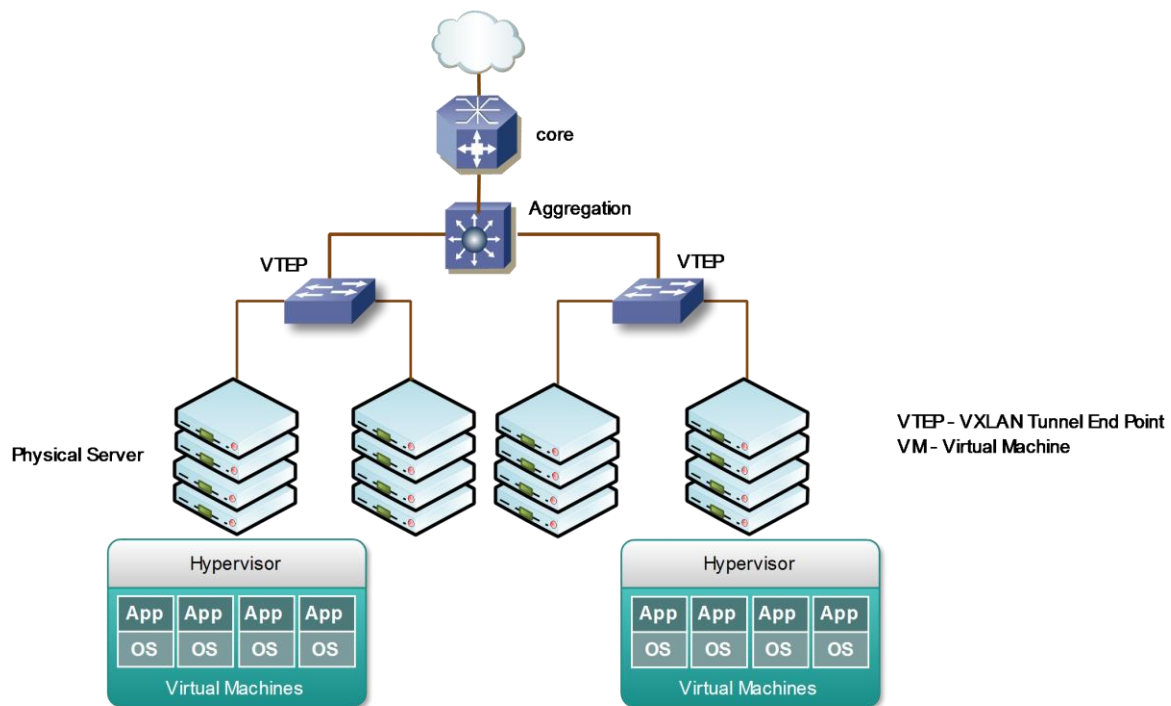




Veryx ATTEST™ VXLAN Conformance Test Solution DATASHEET

Veryx ATTEST™ Conformance Test Solution (CTS) Virtual Extensible LAN (VXLAN) is ideal for data center equipment manufacturers who desire an easy and efficient solution for verification of **VXLAN** implementation in their VXLAN tunnel end-points (VTEP) deployable in data center network. **VXLAN** allows creating a logical network for virtual machines across different networks. (i.e., a layer 2 network is created on top of layer 3.) **VXLAN** does this through encapsulation.

Veryx has defined test cases that comprehensively test for VXLAN conformance. These test cases are grouped into convenient test groups for each category of functions.



Sample Data Center Topology

HIGHLIGHTS

- Verifies VXLAN implementations – VTEP
- Validates mapping table population, multicasting, encapsulation and de-capsulation of frames

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

- ★ draft-mahalingam-dutt-dcops-vxlan-03
- ★ draft-ietf-nvo3-framework-02

KEY TESTS

- ★ Encapsulation and De-capsulation
- ★ Multicast Addressing
- ★ Unicast, multicast and broadcast communication between VMs
- ★ Mapping Table
- ★ Management
- ★ Frame format

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VXLAN (Total test cases – 39)	
<ul style="list-style-type: none"> • Frame format verification • Multicast addressing verification • Static mapping table verification 	<ul style="list-style-type: none"> • VXLAN encapsulation and de-capsulation verification • Packet Handling verification

Veryx ATTEST VXLAN is designed for conformance testing of VXLAN functions in data center network equipment.

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 VXLAN 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.

The screenshots show the ATTEST software interface. The top window displays test configuration for 'TEST_001', including title 'UDP checksum with 0', purpose 'Verify whether the VXLAN Tunnel End Point (VTEP) processes encapsulated frames with UDP checksum as zero', and execution time of 300 seconds. The middle window shows a tree view of test configuration with fields like VLAN ID (1), VLAN Identifier (VNI): (5001), Multicast Address (239.0.0.2), and CLI mapping file (vxlan_array_s). The bottom right window shows a network topology diagram with VTEP (DUT), VTEP, and Physical Servers (V1, V2, V3, V4) connected via aggregation and physical servers.

For more information, kindly visit our website or contact us.

ORDERING INFORMATION	
PRODUCT	PART NUMBER
VXLAN Conformance Test Solution	CTS-VXLAN-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

