

Xena1564

Standalone Y.1564 application

1564

XENA MANAGER

Key Features

Full configuration and performance testing according to Y.1564

Complete validation of Ethernet service-level agreements (SLAs) in a single test

Multiple protocols supported per UNI (Ethernet, Customer and Service VLANs, MPLS, IPv4, IPv6, and UDP)

Define Per-UNI or per-CoS bandwidth profiles, and specify CoS-to-DSCP mapping

Support for different network topologies and traffic flow directions

Summary and result reports in PDF and XML formats

Xena1564 is a free PC application developed by Teledyne LeCroy Xena for performing Y.1564 methodology using one or more Xena test chassis.

Y.1564 is the ITU-T standard for turning up, installing and trouble-shooting Ethernet-based services. Formulated as an improvement over RFC2544 it is the only standard test methodology that allows for complete validation of Ethernet service-level agreements (SLAs) in a single test.

Xena1564 provides full support for both the configuration and performance test types described in Y.1564. It uses the same terminology and features a simple intuitive GUI that lets you connect one or more Compact and/or B720/2400 chassis for testing Layer 2 and Layer 3.

You can define multiple Ethernet services and organize them in a custom folder hierarchy. Xena1564 supports different network topologies and traffic flow directions and can be used for either IPv4 or IPv6.

Via Xena1564, you can define the protocol layers supported by each UNI (Ethernet, Customer and Service VLANs, MPLS, IP and UDP) as well as defining either per-UNI or per- CoS bandwidth profiles for each UNI, plus you can specify CoS-to-DSCP mapping.

Test reports can be generated in both PDF and XML format and extensive configuration options are available for fine-tuning the tests.

The automated script environment may need to perform post-processing actions on the generated reports, either by parsing the data or sending the report somewhere else (by email or by copying it to a remote server).

The XML report contains both a test results section and a test configuration section. The results section will contain the actual results, whereas the configuration section contains the full configuration used to perform the test.

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UNI Configuration

Frame Configuration

Ingress Bandwidth Profiles

Egress Bandwidth Profiles

Frame Header Composition

☐ VLAN: Customer Tag
☐ VLAN: Service Tag
☒ MPLS Header(s)
Stack Size:
☐ IP Header
IP Version:
☐ UDP Header
☒ Enable UDP Checksum

Frame Editor

Ethernet

MPLS

Type	Label	Class	TTL
88 47	0	0	255

Frame Payload

Payload Type:
Payload Pattern:

00 00 00 00 00 00
00 00 00 00 00 00
00 00 00 00 00 00

Xena1564 measures these parameters
(in accordance with ITU-T Y.1564):

Totals:Per UNI-CoS pair:

- Tx rate (%)• Tx rate (Fps)
- Tx rate (Fps)• Tx rate (Bps)
- Tx rate (Bps)• Rx rate (Bps)
- Tx and Rx frames• Loss (ratio)
- Loss (frames)• Transfer Delay
- Loss (ratio)• Delay Variance

Create Ethernet Service

Service Main Type

Service Label:
Service Type: ☒ EPL ☐ E-LAN ☐ E-Tree
Is Virtual Service: ☐

Service Acceptance Criteria

Frame Loss Ratio: ☒ Use in test
Frame Transfer Delay: msec ☒ Use in test
Frame Delay Variance: msec ☒ Use in test
Availability: % ☒ Use in test

Testflow Characteristics

Topology

☒ Pairs
☐ Blocks
☐ Mesh

Direction

☐ East -> West
☐ West -> East
☒ Bidirectional

WEST ↔ EAST

Service Selection

☒ All Services
☐ Test 1 (EPL) (1:2)
☐ Test 2 (EPL) (1:2)
☐ Test 3 (EPL) (1:2)

Select Test Steps

☒ CR Validation Test
☐ CR Step Load Test
☐ Run CR Validation Test Fails
☐ EBR Configuration Test
☐ Traffic Policing Test
☐ CRB Configuration Test
☐ EBR Configuration Test

Test Execution Parameters

Iterations:
Step Duration: seconds
Basic Test On-Fail: ☐
CR Step Load Parameters
Start Rate: % of CR
Step Rate: % of CR
Traffic Policing Parameters
Grace Factor: % of CR

L3 Address Refresh

Refresh Enabled: ☒
Refresh Period: seconds
Max Settings:

Frame Size

Software Controlled Size
☐ P/P/T Default
☒ Custom Size
☐ Size Range

Hardware Controlled Size

☐ Incrementing
☐ Random Size
☐ Mixed Size

Services selected for test: 1

☐ Refresh Data Grid
Ready
Test not running. Elapsed: 00:00:00. User: site

Ordering Information

Product Description

Xena1564 Standalone Y.1564 application

Product Code

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