

# 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 troubleshooting 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.

[Find out more here:](#)



## 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

# L2

**Frame Payload**

Payload Type:

Payload Pattern:

```
00 00 00 00 00 00
00 00 00 00 00 00
00 00 00 00 00 00
```

**Frame Editor**

Ethernet		MPLS		
Type	Label	Class	TTL	
88 47	0	0	255	

**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

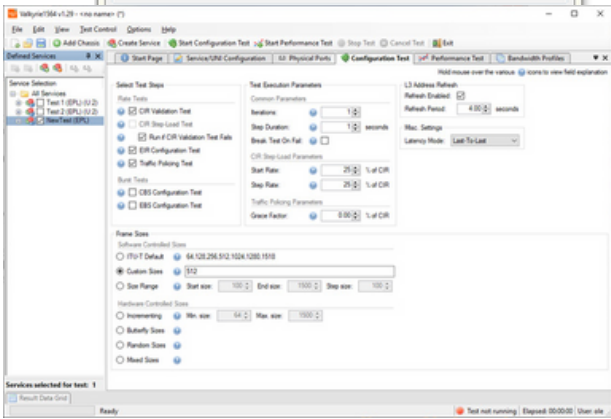
Direction:  East -> West  West -> East  Bidirectional

WEST ↔ EAST

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



## Ordering Information

### Product Description

Xena1564 Standalone Y.1564 application

### Product Code

Xena1564



Local sales offices are located throughout the world. Visit our website to find the most convenient location.

1-800-5-LeCroy • teledynelecroy.com

