



# Xena1564

(v1.13)

## Step by Step Guide





## Xena1564 – Step by Step

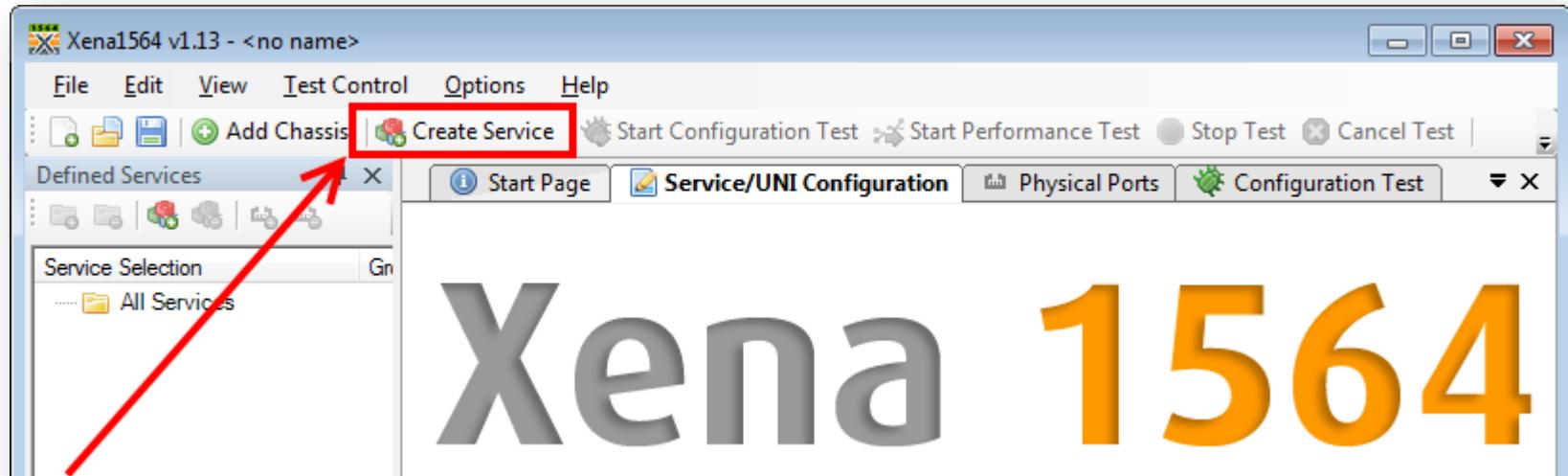
-  Create Service
-  Bandwidth Profile
-  Physical Ports
-  Service/UNI Configuration
-  Configuration Test
-  Performance Test
-  Reporting
-  CLI Option (RFC2544 Automated)



# Create Service



After launching Xena1564, start here:





# Create Service

## GUI Panels

**Create Ethernet Service**

**Service Main Type**

Service Label:  1

Service Type:  EPL  E-LAN  E-Tree  
Is Virtual Service:  2

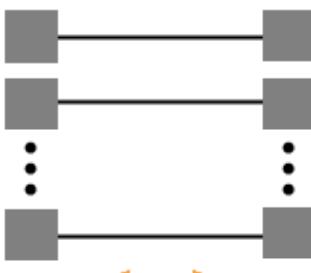
**Service Acceptance Criteria**

Frame Loss Ratio:  0.00  E-6  Use in test  
Frame Transfer Delay:  10.000  msec  Use in test  
Frame Delay Variance:  1.000  msec  Use in test  
Availability:  100.00  %  Use in test 3

**Testflow Characteristics**

Topology  
 Pairs  Blocks  Mesh  
Direction  
 East -> West  West -> East  Bidirectional 4

WEST  EAST



Create  Cancel

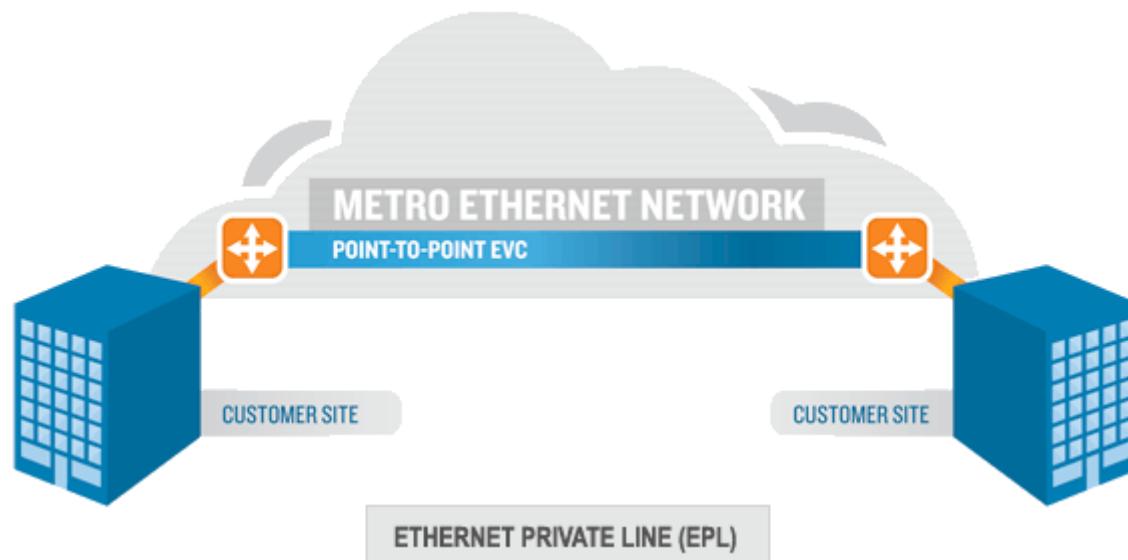
# Create Service

## Service Creation

- 1 Enter a suitable **Service Label** to make the service easy to identify later on.
- 2 Set the **Service Type**:

### Ethernet Private Line (EPL)

Ethernet Private Line is a Point-to-Point service. It consists of two User Network Interfaces (UNIs) with one EVC provisioned between them.

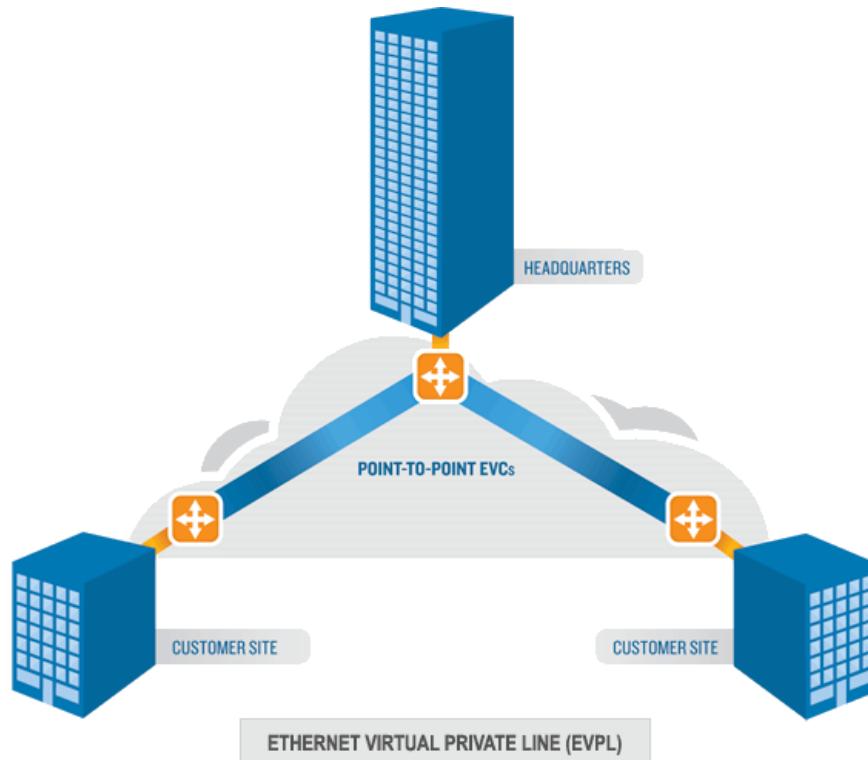




## Service Creation

### 2 Set the Service Type:

**Ethernet Virtual Private Line (EVPL)** is a Point-to-Multipoint service. It consists of two or more user network interfaces (UNIs) with multiple EVCs between them (service multiplexing).

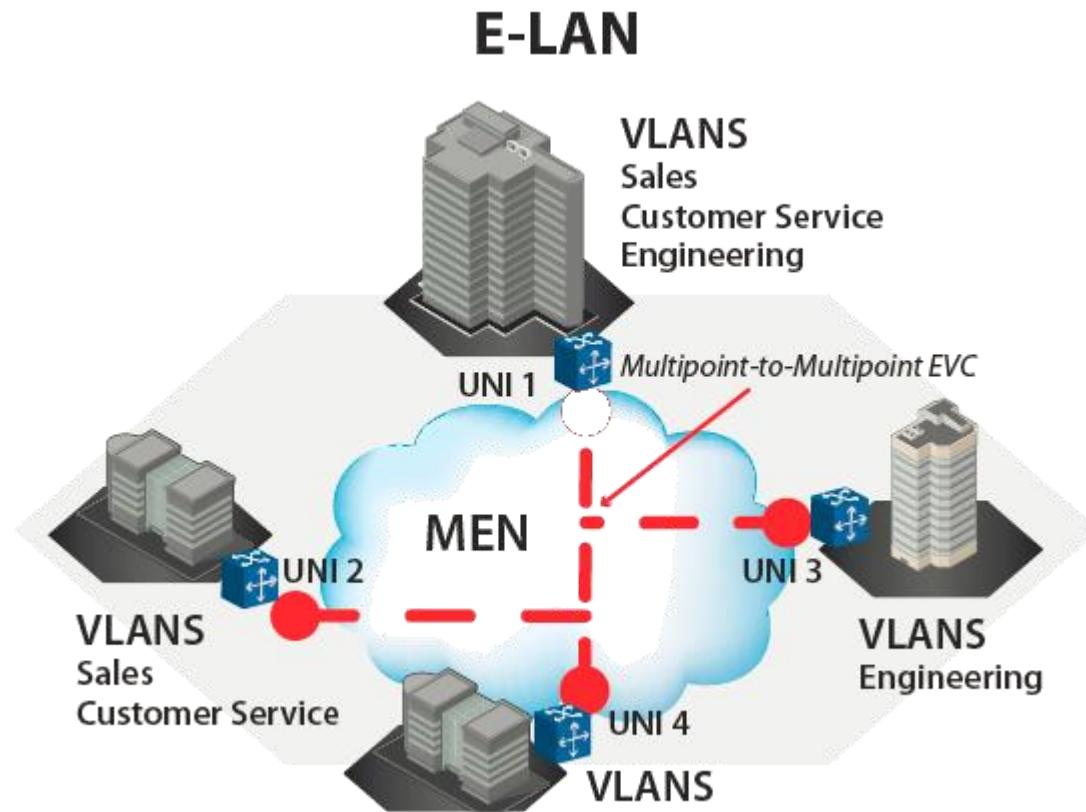


# Create Service

## Service Creation

### 2 Set the Service Type:

**Ethernet Local Area Networks (E-LAN)** - provides a multipoint topology like a local network. Each node can reach any other node.

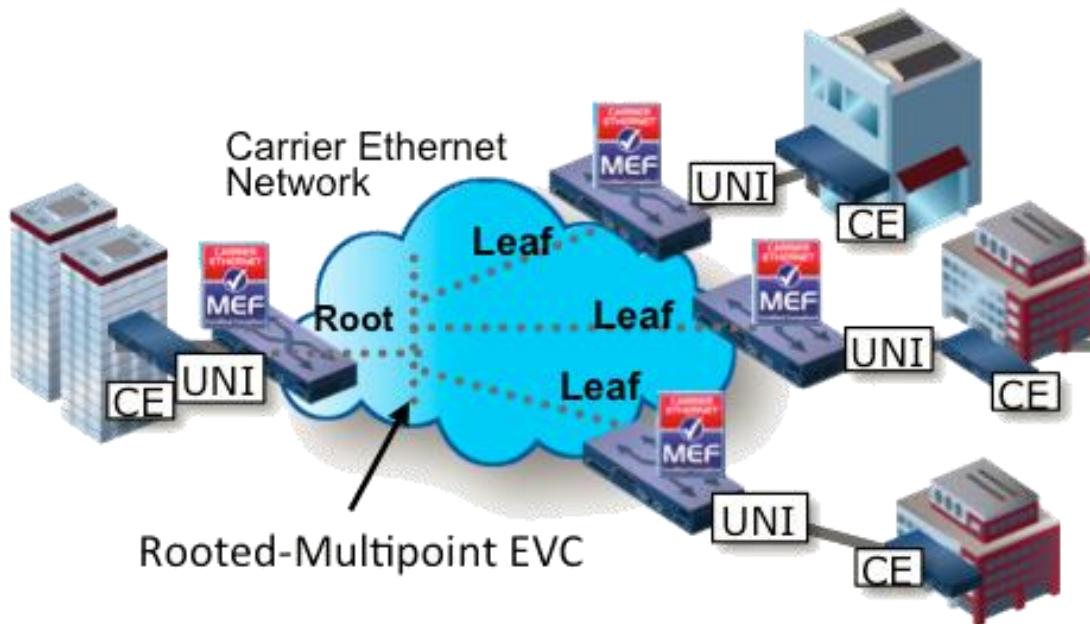


# Create Service

## Service Creation

### 2 Set the Service Type:

**Ethernet Tree(E-Tree)** - a rooted multi-point service that connects a number of UNIs providing sites with hub and spoke multipoint connectivity. Each UNI is designated as either *root* or *leaf* .





## Service Creation

- 3** These values represents the guarantees you want to issue to the user of the service as part of the *Service Level Agreement* (SLA) for this service. If one or more of the criteria should not be used in the test you can deselect them using the **Use in test** checkboxes to the right.
- 4** Specify the **Testflow Characteristics**. For an EPL you can only select the "Pairs" topology as the other topology options are only relevant for multipoint configurations.

You can, however, select the direction for the test traffic. You should keep the default choice of "Bidirectional" for this test.



# Bandwidth Profiles

Profile Label	CIR (Kbps)	CBS (bytes)	EIR (Kbps)	EBS (bytes)
Profile #1	0	10000	0	12176
Profile #2	0	20000	0	12176

Select the **Bandwidth Profiles** tab and click the "Create Profile" button in the small toolbar at the top of the panel.

Click the cell in the CIR column and enter the committed bandwidth you want the UNIs to provide.

Optionally, click the cell in the EIR column and enter the additional excess bandwidth you want the UNIs to provide.

You can also optionally modify the CBS and EBS values.

The default value for both is 12176, according to [MEF 13](#), clause 36.

# Bandwidth Profiles



Screenshot of a network management interface showing Bandwidth Profiles.

Toolbar:

- Start Page
- Service/UNI Configuration
- Configuration Test
- Physical Ports
- Performance Test
- Bandwidth Profiles** (highlighted)
- Reporting Options

Buttons:

- Create Profile
- Delete Profile

Table:

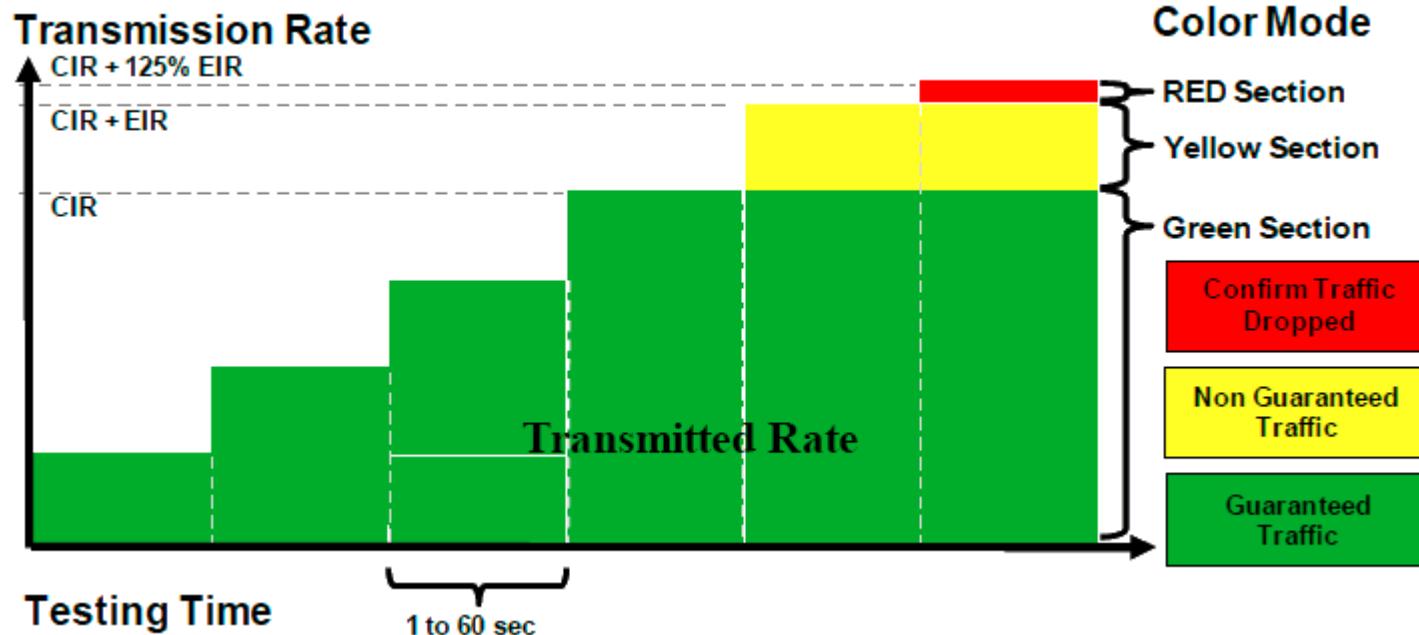
Profile Label	CIR (Kbps)	CBS (bytes)	EIR (Kbps)	EBS (bytes)
Profile #1	0	10000	0	12176
Profile #2	0	20000	0	12176

**CIR - Committed Information Rate**

**CBS - Committed Burst Size**

**EIR - Excess Information Rate**

**EBS - Excess Burst Size**

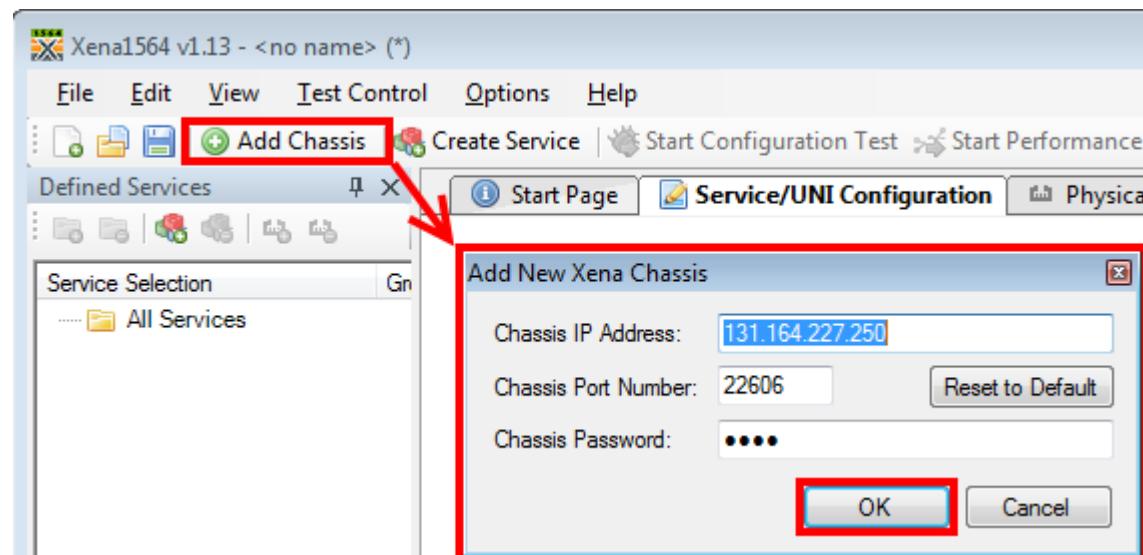




# Physical Ports

## Physical Ports

1. First add a chassis by clicking “Add Chassis”
2. Enter the IP address of the unit that will be used.
3. Click “OK”.



# Physical Ports



Drag and Drop the ports you want to use on to the right service.

The screenshot shows the Xena1564 v1.13 software interface. The window title is "Xena1564 v1.13 - <no name> (\*)".

The menu bar includes: File, Edit, View, Test Control, Options, Help.

The toolbar contains: Add Chassis, Create Service, Start Configuration Test, Start Performance Test, Stop Test, Cancel Test, Exit.

The "Defined Services" panel shows "All Services" expanded, with "SIMPLE EPL" selected (indicated by a red arrow).

The "Physical Ports" tab is active. The main pane displays a table of physical ports:

Full Name	ID	Used	Speed	Speed Sel.
Chassis 1 'XB live				
Module 0, MGSFP	P-1-11-0	No	1 Gbps	
Module 1, M6SFP	P-1-11-1	No	1 Gbps	
Module 2, M6SFP+				
Module 3, M2SFP+				
Module 4, M1CFP100				
Module 6, MGSFP				
Module 7, M6SFP				
Module 8, M6SFP				
Module 9, MGSFP				
Module 10, M6SFP				
Module 11, M6SFP				
Port 0, SFP-E 10/100/1000M	P-1-11-0	No	1 Gbps	
Port 1, SFP-E 10/100/1000M	P-1-11-1	No	1 Gbps	
Port 2, SFP-E 10/100/1000M	P-1-11-2	No	1 Gbps	
Port 3, SFP-E 10/100/1000M	P-1-11-3	No	1 Gbps	
Port 4, SFP-E 10/100/1000M	P-1-11-4	No	1 Gbps	
Port 5, SFP-E 10/100/1000M	P-1-11-5	No	1 Gbps	

Below the table are tabs for Port Settings, IP Address, Public IP Address, and Remote Loop Endpoint. The Port Settings tab is active.

Physical Port Settings include: Inter-Frame Gap (0), Latency Offset (0 ns), Adjust PPM (0), Enable PAUSE Mode (unchecked), and Enable Auto Negotiation (unchecked). ARP and PING settings include: Reply to ARP Requests (unchecked), Reply to PING Requests (unchecked), and Send Gratuitous ARP (unchecked).

At the bottom left, it says "Services selected for test: 1". At the bottom right, it says "Test not running | Elapsed: 00:00:00 | User: dan".

# Physical Ports



1. Configure the service ports according to the topology.
2. Choose EAST WEST Sides for Port Pairs.

The screenshot shows the Xena1564 v1.13 software interface. The main window title is "Xena1564 v1.13 - <no name> (\*)".

The menu bar includes: File, Edit, View, Test Control, Options, Help.

The toolbar contains: Add Chassis, Create Service, Start Configuration Test, Start Performance Test, Stop Test, and Cancel.

The "Defined Services" pane shows a tree structure under "Service Selection". A "SIMPLE EPL" service is selected, with two port pairs listed:

Port	EAST	WEST
(0)	P-1-11-0 (P)	P-1-11-1 (P)
(1)	P-1-11-1 (P)	P-1-11-0 (P)

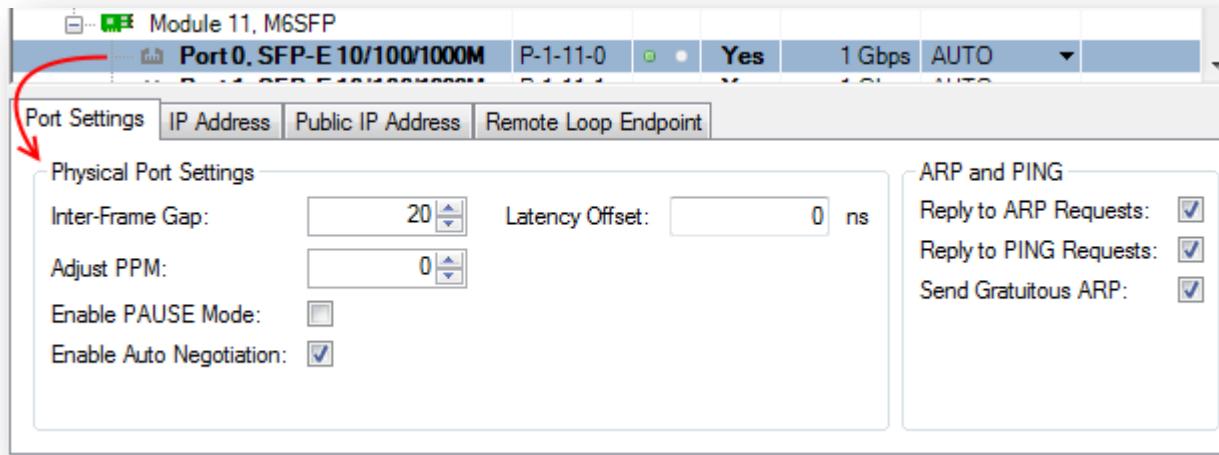
The "Service/UNI Configuration" pane on the right displays the physical port configuration:

Full Name	ID
Chassis 1 XB live	
Module 0, M6SFP	
Module 1, M6SFP	
Module 2, M6SFP+	
Module 3, M2SFP+	
Module 4, M1CFP100	
Module 6, M6SFP	
Module 7, M6SFP	
Module 8, M6SFP	
Module 9, M6SFP	
Module 10, M6SFP	
Module 11, M6SFP	
Port 0, SFP-E 10/100/1000M	P-1-11-0
Port 1, SFP-E 10/100/1000M	P-1-11-1



# Physical Ports

Configure additional port parameters per port:



Inter-Frame Gap:	Specifies the minimum gap between frames generated for a port, expressed as a number of bytes.
Speed Reduction:	Specifies an optional speed reduction on the transmit side of the port, expressed as a ppm value.
Enable PAUSE Mode:	Controls whether the port responds to incoming PAUSE frames.
Enable Auto-Negotiation:	Controls whether auto-negotiation for the port is enabled or not.
Latency Offset:	An optional offset in nanoseconds for the port which is used for latency measurements. You can measure an appropriate value for this by looping two test ports together and performing a latency test. The resulting average latency of this test should be zero. If this is not the case you can adjust the Latency Offset value until you reach a zero value. Then you can use the calibrated value in other tests.



# Physical Ports

Configure additional port parameters per port:

Port Settings IP Address Public IP Address Remote Loop Endpoint

This setting allows you to specify the port IP addresses. For IPv6 you also need to specify the MAC address of the port(s).

----- IPv4 Values -----		----- IPv6 Values -----	
IP Address and Prefix:	<input type="text"/> 24 <input type="button" value="▲"/> <input type="button" value="▼"/>	<input type="text"/> 64 <input type="button" value="▲"/> <input type="button" value="▼"/>	
IP Gateway:	<input type="text"/>		

Set the IP Address IPv4/IPv4 if this is a Layer 3 test.



# Physical Ports

Configure additional port parameters per port:

Port Settings IP Address Public IP Address Remote Loop Endpoint

This setting can be used to specify the public IP address of the port if the port is behind a NAT gateway.

----- IPv4 Values ----- ----- IPv6 Values -----

IP Address and Prefix:  24  64

Public IP Address:	If a port is located behind a NAT firewall/router it may be necessary to provide the public IP address offered by the NAT firewall/router.  Xena1564 will then perform an ARP request for the public IP address before starting the test to avoid packet loss due to an initial ARP phase.  The real (internal) IP address of the port must still be configured in the main port grid as this may be used to send Gratuitous ARP packets from the port to the router before starting the test.
Public IP Prefix:	The network prefix value for the public IP address.



# Physical Ports

Configure additional port parameters per port:

Port Settings | IP Address | Public IP Address | **Remote Loop Endpoint**

This setting is only valid if the port is set to loopback. It specifies the remote endpoint for the loop.

----- IPv4 Values ----- | ----- IPv6 Values -----

IP Address:

Remote Loop IP Address:

When a port with layer-3 protocol segments (IPv4/IPv6) has been configured as a looped port you must specify the IP address of the remote port so that the Xena tester can perform an ARP request for the MAC address.



## Service/Uni Creation - Frame Configuration

Service/UNI Configuration

Frame Configuration Ingress Bandwidth Profiles Egress Bandwidth Profiles

Frame Header Composition

VLAN: Customer Tag  
 VLAN: Service Tag  
 MPLS Header(s)  
Stack Size: 1  
 IP Header  
IP Version: IPv4  
 UDP Header  
 Enable UDP Checksum

L3

Frame Payload

Payload Type: Incrementing  
Payload Pattern:  
00 00 00 00 00 00  
00 00 00 00 00 00  
00 00 00 00 00 00

Frame Editor

Ethernet		S-TAG			C-TAG			MPLS		
	Type	PCP	Tag	Type	PCP	Tag	Type	Label	Class	TTL
	91 00	0	0	81 00	0	0	88 47	0	0	255

IPv4		UDP	
DSCP	ID	Src.Port	Dest.Port
0	65535	0	0

# Frame Configuration

1. Select the needed headers for the test:

Frame Header Composition

- VLAN: Customer Tag
- VLAN: Service Tag
- MPLS Header(s)

Stack Size:

- IP Header
- IP Version: IPv4
- UDP Header
- Enable UDP Checksum

# L3

2. Fill in the values for the selected headers:

Frame Editor

Ethernet	S-TAG	C-TAG
Type 91 00	PCP Tag Type 0 0 81 00	PCP Tag Type 0 0 08 00
IPv4		
DSCP 0	ID 65535	UDP
		Src.Port Dest.Port 0 0

**Pattern** mean you can set your own custom pattern:

**Incrementing** means “**000102030405...FF00010203...**”

provides built-in data integrity check for payload.

**PRBS** provides Pseudo Random Bit Sequence of  $2^{31}-1$  pattern

No data integrity with adding Payload checksum in port properties

Frame Payload

Payload Type:

Incrementing

Payload Pattern:

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



## Ingress Bandwidth Profiles

Per-UNI Bandwidth - select from pre-built Bandwidth Profiles.

The screenshot shows the 'Service/UNI Configuration' tab selected in the top navigation bar. Below it, the 'Ingress Bandwidth Profiles' tab is active. A dropdown menu titled 'Select Profile:' is open, showing two options: 'No profile selected' and 'Profile #1 (C:0/10000, E:0/12176)'. The second option is highlighted with a blue selection bar. At the bottom of the screen, there are three buttons: 'Add', 'Edit', and 'Remove'.

CoS	Profile Assignment	Map DSCP	DSCP Val.

Add Edit Remove



## Ingress Bandwidth Profiles

### Per-CoS Bandwidth Profiles

If you want to use the Per-CoS Bandwidth profile you can select the CoS and Map to DSCP Value as well:

The screenshot shows a software interface for 'Service/UNI Configuration'. At the top, there are tabs: Start Page, Service/UNI Configuration (which is selected), Configuration Test, Physical Ports, and Perf. Below the tabs, there's a sub-menu titled 'UNI Configuration' with three options: Frame Configuration, Ingress Bandwidth Profiles (selected), and Egress Bandwidth Profiles. On the left, there's a list with two radio button options: 'Use Per-UNI Bandwidth Profile' and 'Use Per-CoS Bandwidth Profile'. The second option is selected and highlighted with an orange circle. A 'Select Profile:' dropdown is shown next to it. To the right of this list is a 'Add CoS Profile Assignment' dialog box. Inside the dialog, under 'Select CoS Value:', there is a numeric input field containing '0'. Under 'Select Associated Profile:', a dropdown menu shows 'Profile #1 (C:0/10000, E:0/12176)'. Below these, there's a 'Map to DSCP:' checkbox which is unchecked. Next to it is a dropdown menu showing 'AF11 (10)' and a checked 'Show Unnamed' checkbox. At the bottom of the dialog are 'OK' and 'Cancel' buttons. At the very bottom of the main window, there are 'Add', 'Edit', and 'Remove' buttons.



## Egress Bandwidth Profiles

Per-UNI Bandwidth Profiles –

Select the Egress Bandwidth profile:

Screenshot of the Service/UNI Configuration interface showing the Egress Bandwidth Profiles tab selected.

The interface includes the following tabs: Start Page, Service/UNI Configuration (selected), Configuration Test, and Physical Ports.

The UNI Configuration section displays the Egress Bandwidth Profiles tab.

Two radio button options are available:

- Use Per-UNI Bandwidth Profile
- Use Per-CoS Bandwidth Profile

Under "Use Per-UNI Bandwidth Profile":

- Select Profile: A dropdown menu shows "No profile selected".
- Profile #1 (C:0/10000, E:0/12176) is listed in blue, indicating it is selected.
- Profile #2 (C:0/20000, E:0/12176) is listed below it.

A table titled "Assignment" lists columns: CoS, Profile, Assignment, Map DSCP, and DSCP Val.

Buttons at the bottom: Add, Edit, Remove.



# Configuration Test

## Configuration Test

Xena1564 v1.10 - <no name> (\*)

File Edit View Test Control Options Help

Add Chassis Create Service Start Configuration Test Start Performance Test Stop Test Cancel Test Exit

Start Page Service/UNI Configuration Configuration Test Physical Ports Performance Test Bandwidth Profiles Reporting Options

Hold mouse over the various icons to view field explanation

**1 Select Test Steps**

Rate Tests

- CIR Validation Test
- CIR Step-Load Test
- Run if CIR Validation Test Fails
- EIR Configuration Test
- Traffic Policing Test

Burst Tests

- CBS Configuration Test
- EBS Configuration Test

**2 Test Execution Parameters**

Common Parameters

Iterations: 1 Iterations

Step Duration: 1 seconds

Break Test On Fail:

CIR Step-Load Parameters

Start Rate: 25 % of CIR

Step Rate: 25 % of CIR

Traffic Policing Parameters

Grace Factor: 0.00 % of CIR

**3 L3 Address Refresh**

Refresh Enabled:

Refresh Period: 4.00 seconds

Misc. Settings

Latency Mode: Last-To-Last

**4 Frame Sizes**

Software Controlled Sizes

IEEE Default  64,128,256,512,1024,1280,1518

Custom Sizes  512

Size Range  Start size: 100 End size: 1500 Step size: 100

Hardware Controlled Sizes

Incrementing  Min. size: 64 Max. size: 1500

Butterfly Sizes

Random Sizes

Mixed Sizes

Result Data Grid Result Plot

Ready

Test not running | Elapsed: 00:00:00 | User: dan ..:



## Configuration Test

1

### **Simple CIR validation test Y.1564, chapter 8.1.2, test A.1.**

During the test the transmitting probe generates frames at the CIR rate. The receiving probe measures the received rate, loss, delay, and jitter on the stream. The test fails if any of the maximum frame loss ratio, delay, or jitter thresholds are violated.

### **EIR configuration test - Y.1564, chapter 8.1.2, test B.**

During the test the transmitting probe generates frames at the CIR + EIR rate. The receiving probe measures received rate, loss, delay, and jitter on the stream. The test fails if the measured rate is less than  $\text{CIR} * (1 - \text{max\_loss})$ .



# Configuration Test

2

## Test Execution Parameters

### Common Parameters:

**Duration:** Fill in the duration of each iteration.

**Iterations:** Fill in the number of iteration per this test.

**Break Test On Fail:** Stop test immediately as it would imply a configuration error.

Iterations:	<input type="text" value="1"/>  
Step Duration:	<input type="text" value="1"/>   seconds
Break Test On Fail:	<input checked="" type="checkbox"/> 

### CIR Step-Load Parameters:

**Start Rate:** The Rate in which the test will start.

**Step Rate:** The Rate increment value.

CIR Step-Load Parameters		
Start Rate:	<input type="text" value="25"/>   % of CIR	
Step Rate:	<input type="text" value="25"/>   % of CIR	

### Traffic Policing Parameters:

**Grace Factor:** This is the value referred to in the standard as **M Factor**

The M factor is added to allow for the effect of the traffic policer's CBS and EBS settings, and test time.

Grace Factor:	<input type="text" value="0.00"/>   % of CIR	
---------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

\*Experience will determine the values for M.



# Configuration Test

3

## L3 Address Refresh:

If the **Enable Refresh** checkbox is checked the tester will periodically emit ARP requests (for IPv4) or Neighbor Advertisement requests (for IPv6).  
The period can be set using the **Refresh Period** field.

Refresh Enabled:

Refresh Period:  seconds

## Misc. Settings:

**Latency Mode:** Select the Latency mode to be measured.

Latency Mode:



# Configuration Test

4

## IEEE Default:

The default setting is to use the IEEE standard frame sizes:  
**64, 128, 256, 512, 1024, 1280 and 1518 bytes.**

The following options are also available:

### Custom Sizes:

Lets you specify a comma-separated list of values - useful if you only want to test using one or two packet sizes

**Size Range:**  Size Range   Start size:  End size:  Step size:

Lets you specify a range of packet sizes and the steps.

**Incrementing Sizes:**  Incrementing   Min. size:  Max. size:

Lets you specify a Min and Max size – the sizes: Min,Min+1,Min+2,...,Max.

### Butterfly Sizes:

Lets you specify a Min and Max size – the sizes: Min, Max, Min+1, Max-1, Min+2, Max-2,...

Incrementing    Butterfly Sizes    Random Sizes

Min. size:  Max. size:

### Random Sizes:

Lets you specify a Min and Max size – The sizes will vary among Min – Max randomly.



# Configuration Test

4

## Mixed Sizes:

The Xena tester will use a more or less random mix of packet sizes when sending traffic.

Mixed Weights Configuration

This form enable you to configure the percentage weights for the 'Mixed Sizes' packet size mode. The sum of all weights must be 100.

Packet Sizes:	56	60	64	70	78	92	256	496	512	570	576	594	1438	1518	9216	16360
Weights:	0	0	0	0	57	3	5	1	2	5	1	4	4	18	0	0

Average Packet Size: 464.000 bytes  
Validation State: The sum of packet weights is 100%.

*\*Note that the use of this option will introduce a slight inaccuracy when calculating various results, as the packet sizes are not deterministic.  
A weighted average will be used.*

# Performance Test



Xena1564 v1.10 - <no name> (\*)

File Edit View Test Control Options Help

Add Chassis Create Service Start Configuration Test

Configuration Test Physical Ports Performance Test Bandwidth Profiles

Hold mouse over the various icons to view field explanation

**Test Period**

- 15 Minutes
- Unbounded
- 2 Hours
- 24 Hours

00:01:00 (HH:MM:SS)

**Availability Settings**

Frame Loss Ratio for SES: 0.50

**L3 Address Refresh**

Refresh Enabled:  3

Refresh Period: 4.00 seconds

Misc. Settings

Latency Mode: Last-To-Last

**Frame Sizes**

Software Controlled Sizes

- IEEE Default 64,128,256,512,1024,1280,1518
- Custom Sizes 64,128,256,512,1024,1280,1518
- Size Range Start size: 100 End size: 1500 Step size: 100

Hardware Controlled Sizes

- Incrementing Min. size: 64 Max. size: 1500
- Butterfly Sizes
- Random Sizes
- Mixed Sizes

Result Data Grid Result Plot

Ready | Test not running | Elapsed: 00:00:00 | User: dan ...

1 2 3 4

# Performance Test

1

**Time Period:** Select how long you would like to run the test.  
**Unbounded** mean it will stopped manually by the user.

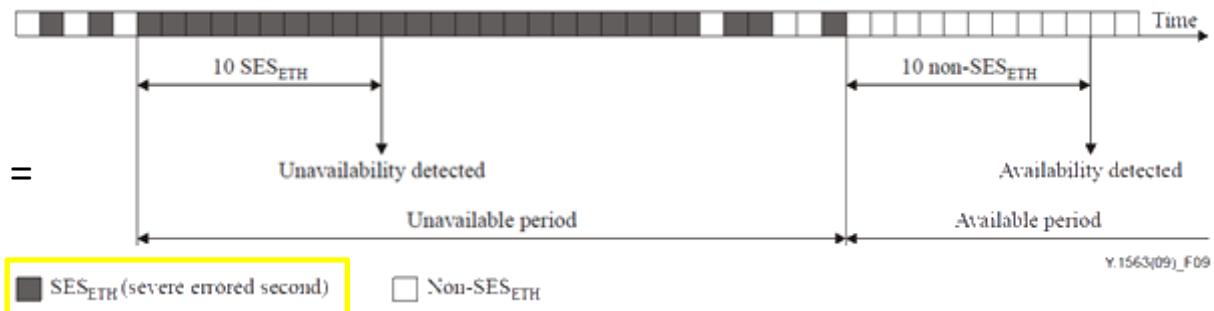
<input checked="" type="radio"/> 15 Minutes	<input type="radio"/> Unbounded
<input type="radio"/> 2 Hours	<input type="radio"/> Custom Period:
<input type="radio"/> 24 Hours	
00:01:00 (HH:MM:SS)	

2

**Availability settings:**

Frame Loss Ratio for SES:

**Severe Errored Seconds =**



3

**L3 Address Refresh:**

If the **Enable Refresh** checkbox is checked the tester will periodically emit ARP requests (for IPv4) or Neighbor Advertisement requests (for IPv6).

The period can be set using the **Refresh Period** field.

**Misc. Settings:**

**Latency Mode:** Select the Latency mode to be measured.

Latency Mode:

# Performance Test

4

## IEEE Default:

The default setting is to use the IEEE standard frame sizes : 64, 128, 256, 512, 1024, 1280 and 1518 bytes.

The following options are also available:

### Custom Sizes:

Lets you specify a comma-separated list of values - useful if you only want to test using one or two packet sizes

*Size Range:*  Size Range Start size:  End size:  Step size:

Lets you specify a range of packet sizes and the steps.

*Incrementing Sizes:*  Incrementing Min. size:  Max. size:

Lets you specify a Min and Max size – the sizes: Min,Min+1,Min+2,...,Max.

### Butterfly Sizes:

Lets you specify a Min and Max size – the sizes: Min,Max, Min+1, Max-1, Min+2, Max-2,...

Incrementing      Min. size:  Max. size:   
 Butterfly Sizes  
 Random Sizes

Lets you specify a Min and Max size – The sizes will vary among Min – Max randomly.

# Performance Test

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## Mixed Sizes:

The Xena tester will use a more or less random mix of packet sizes when sending traffic.

Mixed Weights Configuration

This form enable you to configure the percentage weights for the 'Mixed Sizes' packet size mode. The sum of all weights must be 100.

Packet Sizes:	56	60	64	70	78	92	256	496	512	570	576	594	1438	1518	9216	16360
Weights:	0	0	0	0	57	3	5	1	2	5	1	4	4	18	0	0

Average Packet Size: 464.000 bytes  
Validation State: The sum of packet weights is 100%.

*\*Note that the use of this option will introduce a slight inaccuracy when calculating various results, as the packet sizes are not deterministic. A weighted average will be used.*

# Reporting



1

Xena1564 v1.14 - <no name>

File Edit View Test Control Options Help

Add Chassis Create Service Start Configuration Test Start Performance Test Stop Test

Start Page Reporting Options Service/UNI Configuration Physical Ports Configuration Test X

Report Identification

Customer Name: Xena Networks

Customer Service ID:

Customer Access ID:

Comments:

2

Report Generation Options

Report Naming

Report Filename Prefix: xena1564-report

Append Timestamp to Filename:

Report Content

Include Stream Information in Report:

Include Charts in Report:

Throughput Unit for Charts: Frames/s

Report Formats

Generate PDF Report

Generate XML Report

Result Data Grid Result Plot

Idle Test not running Elapsed: 00:00:00 User: CLA



# Reporting

## 1 Report Identification:

This section contains options that help identify the test context.

**Customer Name:** Customer Name:

The name of the customer for which the test is performed.

Customer Service ID:

**Customer Service/Access Id:** Customer Access ID:

These options let you provide details about the network circuits you are testing.

**Comments:**

Lets you provide any multi-line comments for the test configuration.

Comments:



# Reporting

2

## *Report generation Options:*

### Report Naming

#### **Report Filename Prefix:**

Specifies the prefix for the report filename.

Report Filename Prefix:

xena1564-report

Append Timestamp to Filename:



#### **Append Timestamp to Filename:**

If checked, a timestamp on the form <YYYYMMDD-HHMMSS> is added to the filename prefix.



# Reporting

2

## Report Content:

Include Stream Information in Report:

Include Charts in Report:

Throughput Unit for Charts:

**Include Stream Information in Report:**

If checked the report will also contain detailed results for each port. If unchecked only the totals will be reported.

**Include Charts in Report**

If checked the report will include bar charts showing the test results. (This is only applicable for PDF type reports.)

**Throughput Unit for Charts**

This property allow you to determine whether the units of data are referred to as "packets" or "frames".

## Report Formats:

Select which type(s) of reports will be generated. You can enable several.

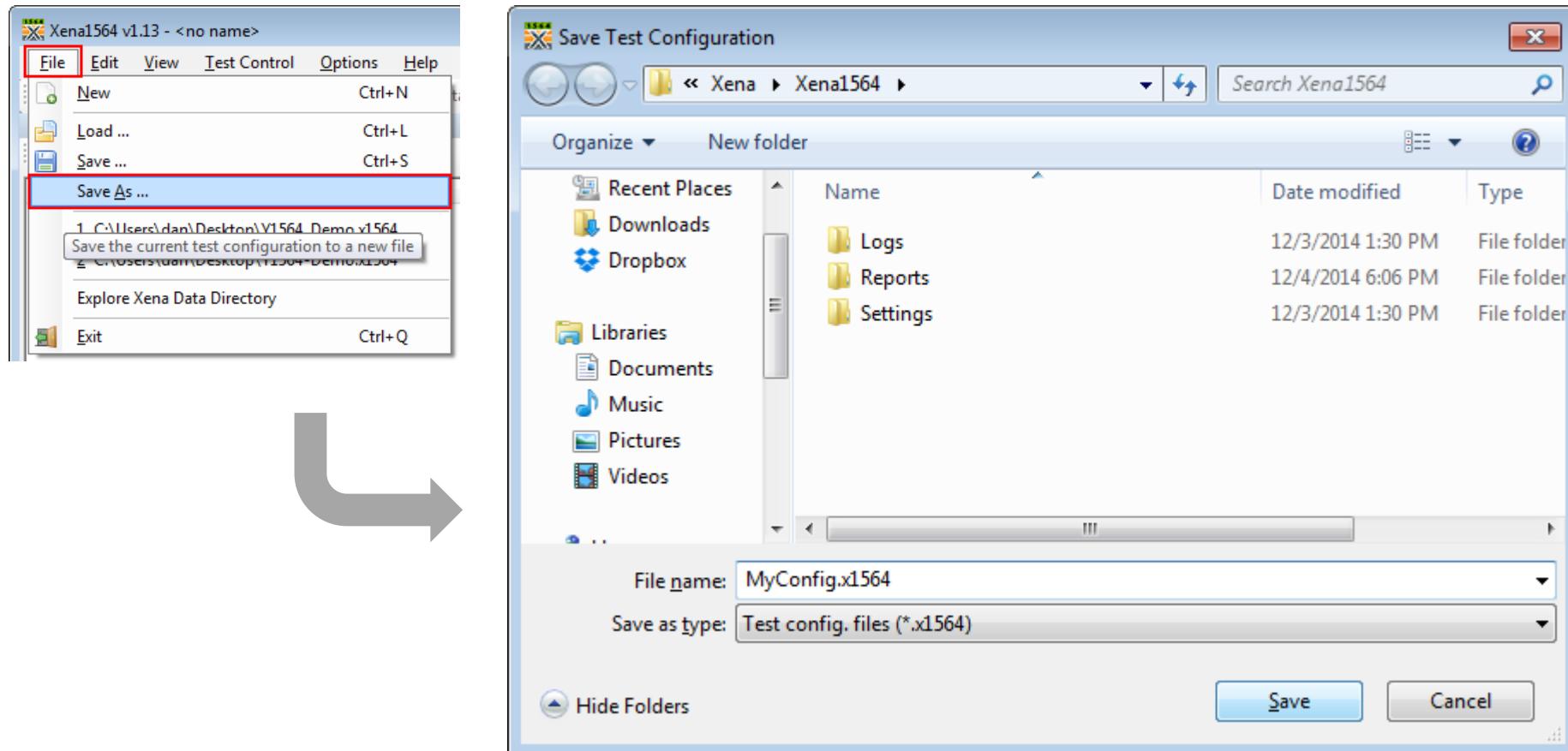
The generated report files will be given a file extension that matches the selected type i.e. ".pdf" for PDF files and so forth.

**\*XML Report Specification** - You can find the [specification for the XML Report here](#).



## Xena1564 CLI Option

1) Save your Configuration with an appropriate name.





# CLI Option

## Xena Y.1564 CLI Option

2) Use the Xena1564.Exe to parse and run your configuration:

\* This one command can be executed from a script via one line of code.  
e.g. TCL : EXEC "C:/.../Xena1564run.exe -c MyConfig.x1564"

The screenshot shows a Windows Command Prompt window titled "cmd - Shortcut". The command entered is "c:\Program Files (x86)\Xena Networks\Release 57\L23Tools>Xena1564run.exe -c MyConfig.x1564 -t conf". The output window displays the following log:

```
c:\Program Files (x86)\Xena Networks\Release 57\L23Tools>Xena1564run.exe -c MyConfig.x1564 -t conf
Xena Test Configuration Executer - Xena Test Configuration Executer
Copyright © Xena Networks 2012 - 2013

INFO: Loading test configuration MyConfig.x1564
INFO: Activating chassis: 131.164.227.250
INFO: Logon to 131.164.227.250:22606 successful
INFO: All chassis connected and read
INFO: Resetting used ports
INFO: Deleting port stream configuration
INFO: Configuring basic service SIMPLE EPL <EPL>
INFO: Sending MAC learning packets
INFO: Setting up CIR Validation Test for service 'SIMPLE EPL <EPL>'
INFO: Traffic with framesize 512 enabled for service 'SIMPLE EPL <EPL>'
INFO: Traffic disabled for service 'SIMPLE EPL <EPL>'
INFO: Collecting final counters for service 'SIMPLE EPL <EPL>'
INFO: All tests completed
INFO: PDF report written to [C:\Users\dan\Documents\Xena\XenaRun\Reports\xena1564-report-20141205-135205.pdf]
INFO: Test execution completed

c:\Program Files (x86)\Xena Networks\Release 57\L23Tools>
```



# CLI Option

## Xena Y.1564 CLI Option

3) use “—help” to learn about other parameters options:

The screenshot shows a Windows Command Prompt window titled "cmd - Shortcut". The command entered is "c:\Program Files (x86)\Xena Networks\Release 57\L23Tools>Xena1564run.exe --help". The output displays the Xena Test Configuration Executer version information and a list of valid options with their descriptions. The options are:

- c, --config Required. Path to test configuration file.
- t, --testtype Test type to execute: { conf (\*.\*) | perf } (Y.1564 only).
- u, --user Set the username (default: xenacli)
- r, --reportpath Path where reports are saved.
- o, --company Company name.
- l, --logo Path to logo file.
- h, --help Display this help screen.

The command prompt then shows the path "c:\Program Files (x86)\Xena Networks\Release 57\L23Tools>" again.



# WANT MORE INFORMATION?

## RESOURCES

Website: [www.xenanetworks.com/resources/](http://www.xenanetworks.com/resources/)

Email: [support@xenanetworks.com](mailto:support@xenanetworks.com)