



Valkyrie1564 (v1.14)

A STEP-BY-STEP GUIDE

AGENDA

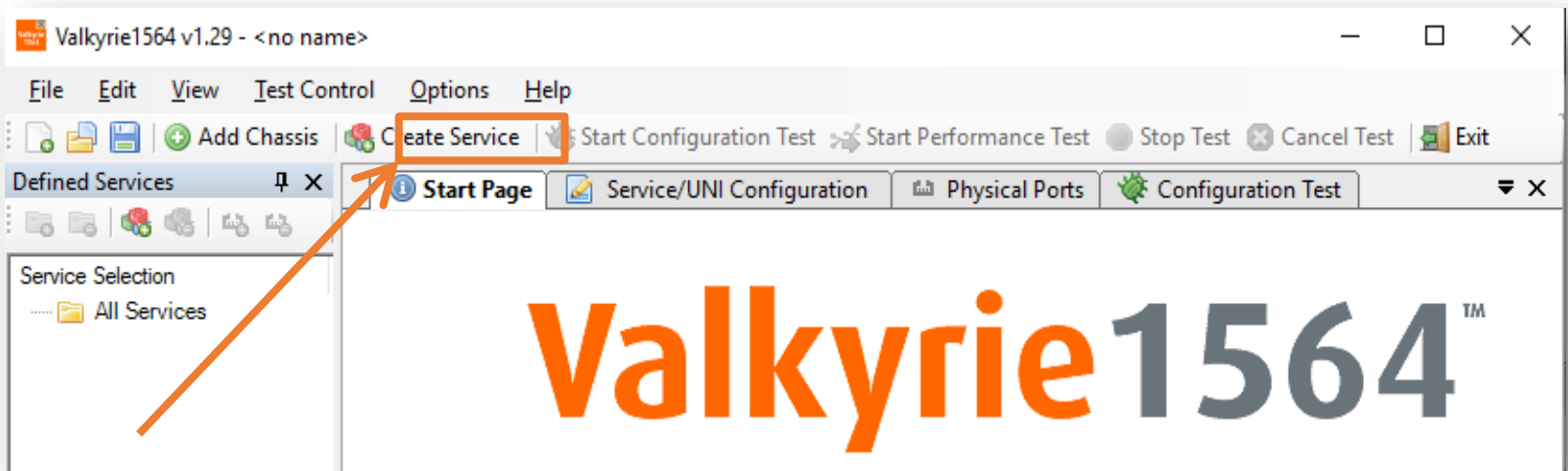
Valkyrie1564 – Step by Step

Create Service
Bandwidth Profile
Physical Ports
Service/UNI Configuration
Configuration Test
Performance Test
Reporting



Create Service

After launching Valkyrie1564, start here:



Create Service

GUI Panels

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

Diagram illustrating a network topology with two columns of nodes (WEST and EAST) connected by horizontal lines. Vertical ellipses indicate multiple nodes in each column. A double-headed arrow at the bottom indicates bidirectional communication.

Create Cancel

Create Service

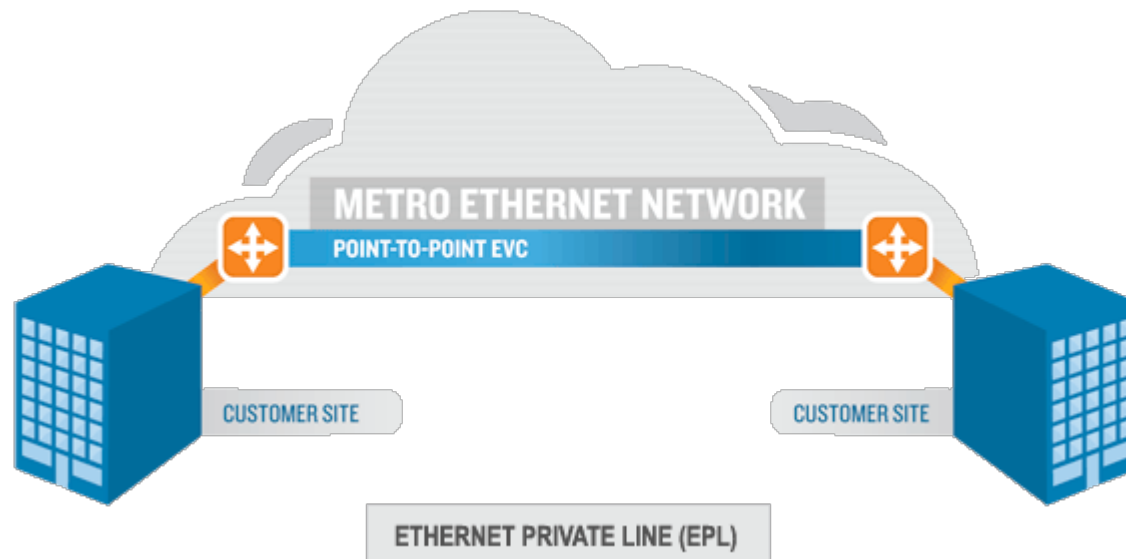
Service Creation

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.

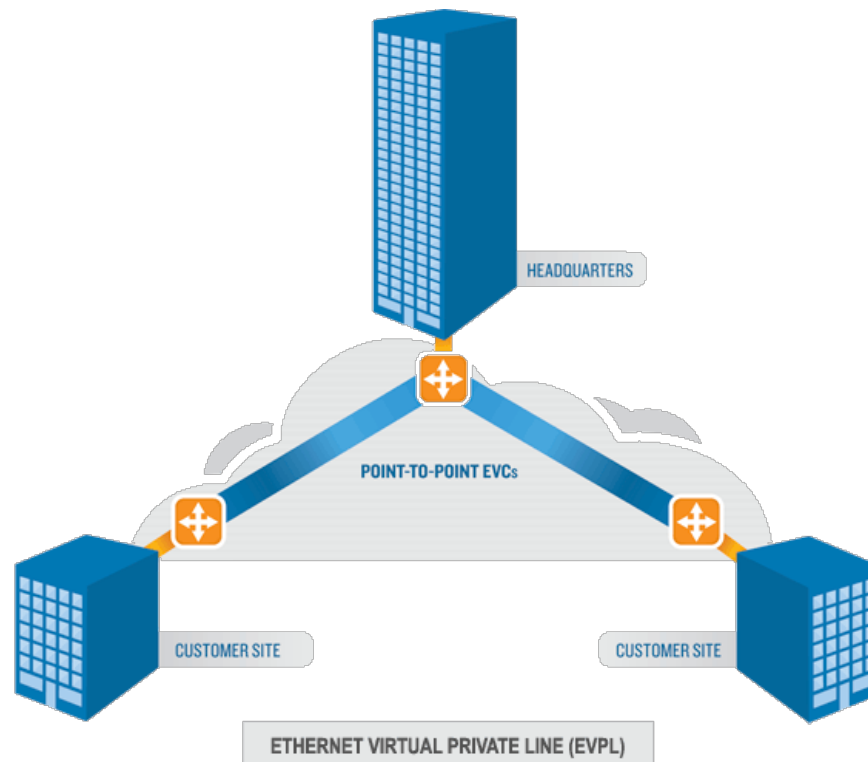


Create Service

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).

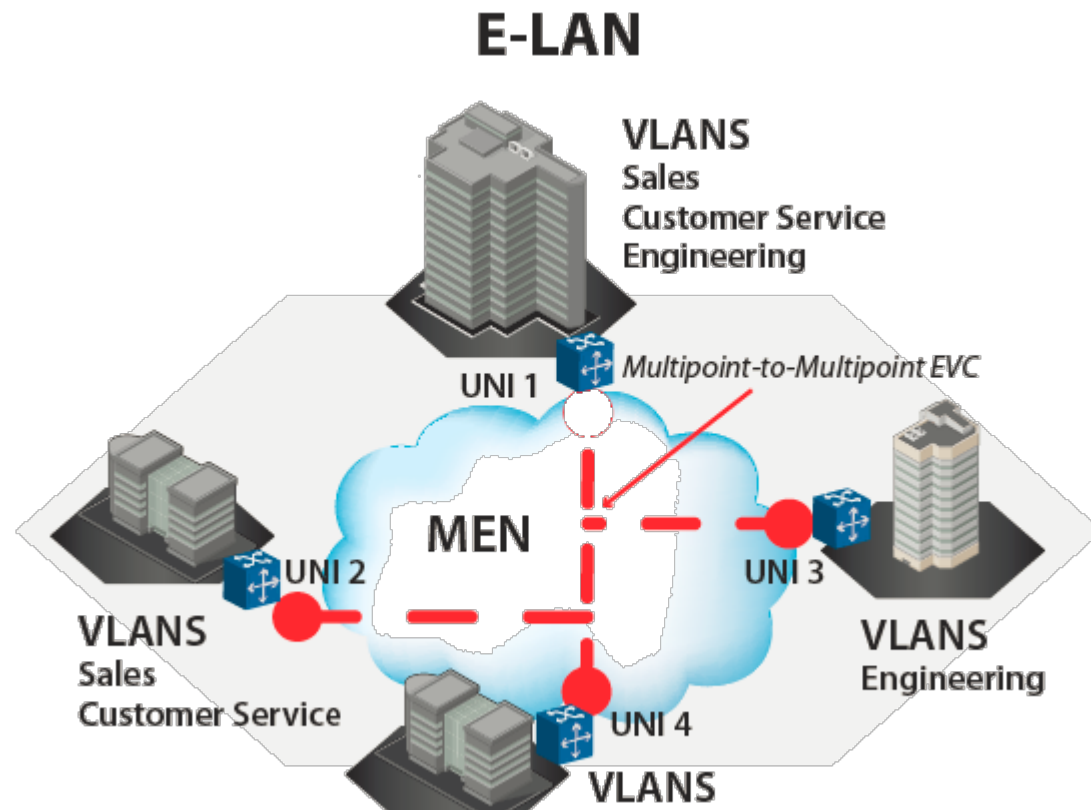


Create Service

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.

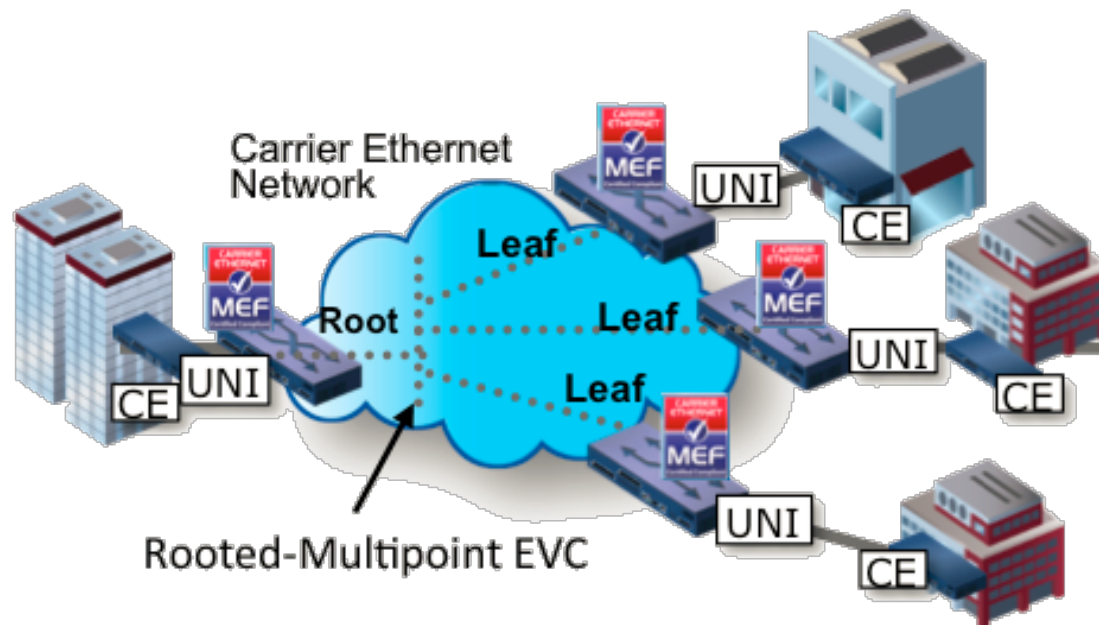


Create Service

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* .



Create Service

Service Creation

3

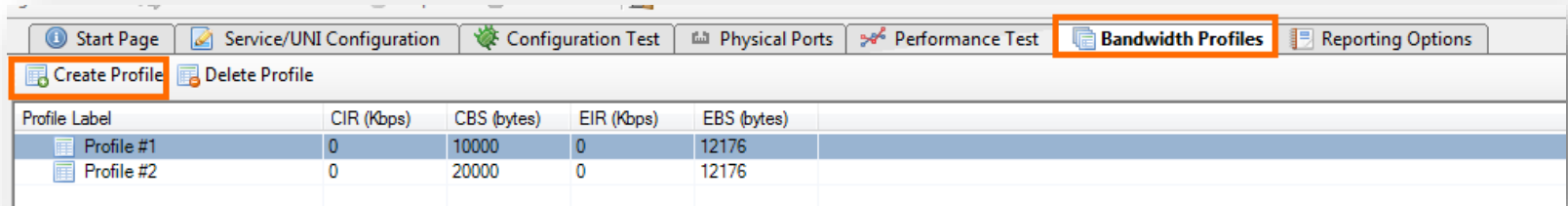
These values represents the guarantees you want to issue to the user of the service as part of the *Service Level Agreement* (SLA) for this service. If one or more of the criteria should not be used in the test you can deselect them using the **Use in test** checkboxes to the right.

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

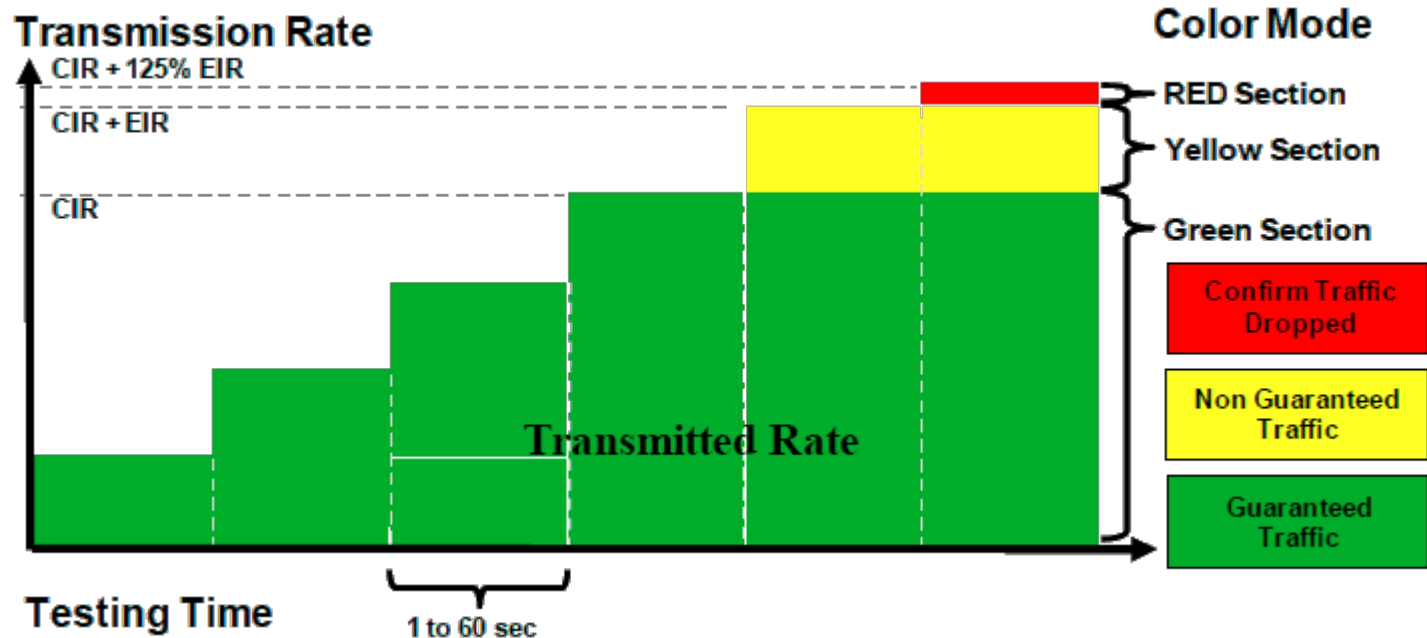
| Start Page | Service/UNI Configuration | Configuration Test | Physical Ports | Performance Test | Bandwidth Profiles | Reporting Options |
|-----------------------|---------------------------|--------------------|----------------|------------------|---------------------------|-------------------|
| Create Profile | Delete Profile | | | | | |
| 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

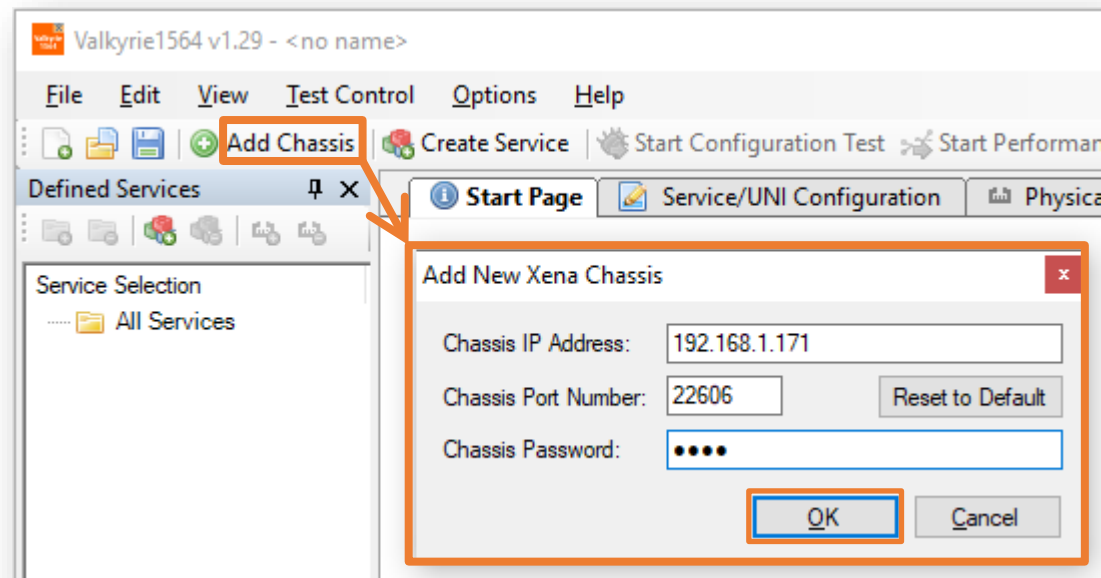
EIR - Excess Information Rate

EBS - Excess Burst Size



Physical Ports

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 Valkyrie1564 v1.29 software interface. The 'Physical Ports' tab is active, displaying a table of physical ports. The table has columns for Full Name, ID, Used, Speed, and Speed Sel. The 'SIMPLE EPL' service is selected in the left pane. An orange arrow points from the 'Port 0' row to the 'SIMPLE EPL' service, indicating a drag-and-drop action.

| Full Name | ID | Used | Speed | Speed Sel. |
|---------------------------------------|----------|------|--------|------------|
| Chassis 0 'Test .171' (192.168.1.171) | | | | |
| Module 0, Odin-10G-3S-6P-CU | | | | |
| Module 1, Odin-1G-3S-6P-E | | | | |
| Module 2, Odin-10G-1S-2P-T | | | | |
| Module 3, Odin-10G-1S-2P | | | | |
| Module 4, Odin-10G-3S-2P-CU | | | | |
| Module 5, Odin-1G-3S-6P | | | | |
| Module 6, Odin-40G-2S-2P | | | | |
| Module 7, Odin-10G-1S-12P | | | | |
| Module 8, Odin-10G-1S-6P | | | | |
| Module 9, Odin-10G-5S-6P-CU | | | | |
| Module 10, Odin-1G-3S-2P-T | | | | |
| Module 11, Odin-1G-3S-6P | | | | |
| Port 0, SFP-E 10/100/1000M | P-0-11-0 | No | 1 Gbps | |
| Port 1, SFP-E 10/100/1000M | P-0-11-1 | No | 1 Gbps | |
| Port 2, SFP-E 10/100/1000M | P-0-11-2 | No | 1 Gbps | |
| Port 3, SFP-E 10/100/1000M | P-0-11-3 | No | 1 Gbps | |
| Port 4, SFP-E 10/100/1000M | P-0-11-4 | No | 1 Gbps | |

Physical Ports

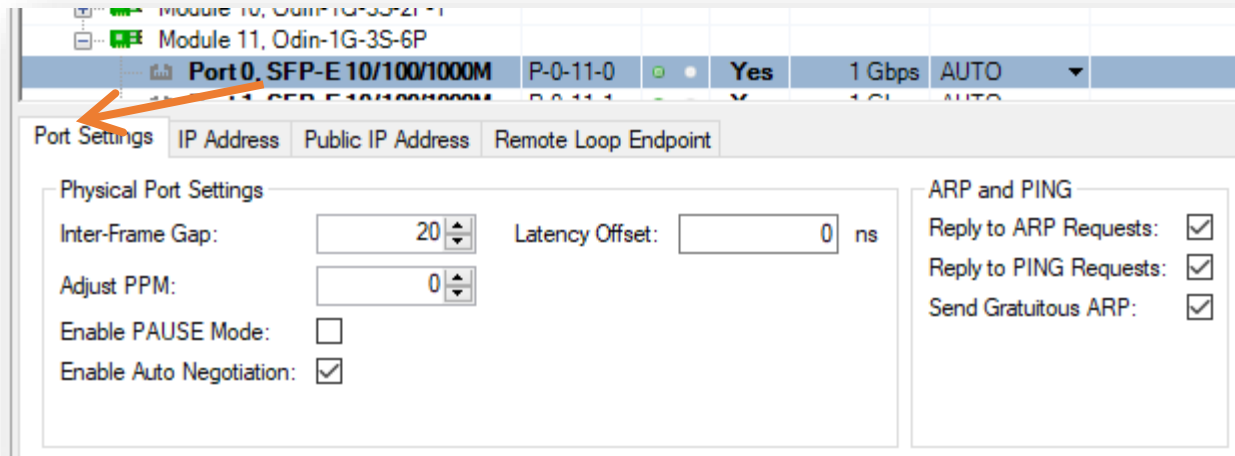
1. Configure the service ports according to the topology.
2. Choose EAST WEST Sides for Port Pairs.

The screenshot shows the Valkyrie1564 v1.29 software interface. The 'Physical Ports' tab is active, displaying a list of physical ports and their configuration. The 'Defined Services' pane on the left shows the 'SIMPLE EPL' service with two port pairs: (0) P-0-11-0 (P) and (1) P-0-11-1 (P). The 'EAST WEST' side is selected for both port pairs. The 'Physical Ports' table on the right lists the ports and their status.

| Full Name | ID | Used | Speed |
|---------------------------------------|----------|------|-------|
| Chassis 0 'Test .171' (192.168.1.171) | | | |
| Module 0, Odin-10G-3S-6P-CU | | | |
| Module 1, Odin-1G-3S-6P-E | | | |
| Module 2, Odin-10G-1S-2P-T | | | |
| Module 3, Odin-10G-1S-2P | | | |
| Module 4, Odin-10G-3S-2P-CU | | | |
| Module 5, Odin-1G-3S-6P | | | |
| Module 6, Odin-40G-2S-2P | | | |
| Module 7, Odin-10G-1S-12P | | | |
| Module 8, Odin-10G-1S-6P | | | |
| Module 9, Odin-10G-5S-6P-CU | | | |
| Module 10, Odin-1G-3S-2P-T | | | |
| Module 11, Odin-1G-3S-6P | | | |
| Port 0, SFP-E 10/100/1000M | P-0-11-0 | Yes | 1 Gb |
| Port 1, SFP-E 10/100/1000M | P-0-11-1 | Yes | 1 Gb |
| Port 2, SFP-E 10/100/1000M | P-0-11-2 | No | 1 Gb |
| Port 3, SFP-E 10/100/1000M | P-0-11-3 | No | 1 Gb |

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: | <p>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.</p> <p>The resulting average latency of this test should be zero.</p> <p>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.</p> |

Physical Ports

Configure additional port parameters per port:

The screenshot shows a configuration window with four tabs: 'Port Settings', 'IP Address' (which is selected), 'Public IP Address', and 'Remote Loop Endpoint'. Below the tabs, a text box states: 'This setting allows you to specify the port IP addresses. For IPv6 you also need to specify the MAC address of the port(s)'. The configuration is divided into two columns: '----- IPv4 Values -----' and '----- IPv6 Values -----'. Under the IPv4 column, there is a label 'IP Address and Prefix:' followed by an empty text input field, a dropdown menu currently showing '24', and another empty text input field. Below this is a label 'IP Gateway:' followed by an empty text input field. Under the IPv6 column, there is a label 'IP Address and Prefix:' followed by an empty text input field, a dropdown menu currently showing '64', and another empty text input field. Below this is a label 'IP Gateway:' followed by an empty text input field.

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:

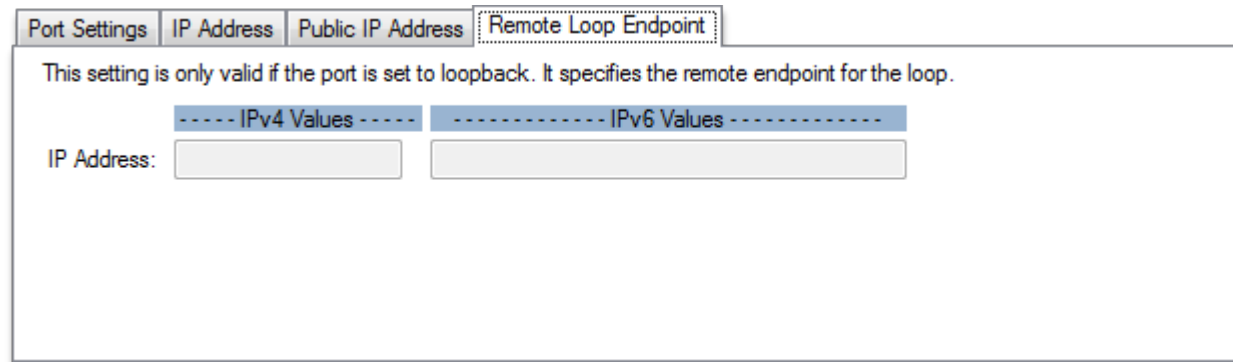
24

64

| | |
|--------------------|---|
| Public IP Address: | <p>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.</p> <p>Valkyrie1564 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.</p> <p>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.</p> |
| Public IP Prefix: | The network prefix value for the public IP address. |

Physical Ports

Configure additional port parameters per port:



The screenshot shows a configuration window with four tabs: 'Port Settings', 'IP Address', 'Public IP Address', and 'Remote Loop Endpoint'. The 'Remote Loop Endpoint' tab is active. Below the tabs, a text label reads: 'This setting is only valid if the port is set to loopback. It specifies the remote endpoint for the loop.' Underneath this text are two input fields. The first is labeled 'IP Address:' and is preceded by a blue header bar that says '----- IPv4 Values -----'. The second input field is preceded by a blue header bar that says '----- IPv6 Values -----'.

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

Start Page **Service/UNI Configuration** Configuration Test Physical Ports Performance Test Bandwidth

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

L3

Frame Payload
Payload Type:
Payload Pattern:

| | | | | | | |
|----|----|----|----|----|----|----|
| 00 | 00 | 00 | 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 | | <input type="text" value="0"/> | <input type="text" value="0"/> | 81 00 | <input type="text" value="0"/> | <input type="text" value="0"/> | 88 47 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="255"/> |

| IPv4 | | | | UDP | |
|--------------------------------|------------------------------------|--------------------------------|--------------------------------|-----|--|
| DSCP | ID | Src.Port | Dest.Port | | |
| <input type="text" value="0"/> | <input type="text" value="65535"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | |

Service/Uni Creation

Frame Configuration

L3

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:
- ☒ UDP Header
- ☒ Enable UDP Checksum

2. Fill in the values for the selected headers:

Frame Editor

| Ethernet | | S-TAG | | | C-TAG | | |
|----------|--|-------|-----|-------|-------|-----|-------|
| Type | | PCP | Tag | Type | PCP | Tag | Type |
| 91 00 | | 0 | 0 | 81 00 | 0 | 0 | 08 00 |

| IPv4 | | UDP | |
|------|-------|----------|-----------|
| DSCP | ID | Src.Port | Dest.Port |
| 0 | 65535 | 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:

Payload Pattern:

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |

Service/Uni Creation

Ingress Bandwidth Profiles

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

The screenshot shows the 'Service/UNI Configuration' window with the 'Ingress Bandwidth Profiles' tab selected. The 'Use Per-UNI Bandwidth Profile' radio button is chosen, and a dropdown menu is open showing three options: 'No profile selected', 'Profile #1 (C:0/10000, E:0/12176)', and 'Profile #2 (C:0/20000, E:0/12176)'. Below the dropdown is a table with columns 'CoS', 'Profile Assignment', 'Map DSCP', and 'DSCP Val.'. At the bottom are 'Add', 'Edit', and 'Remove' buttons.

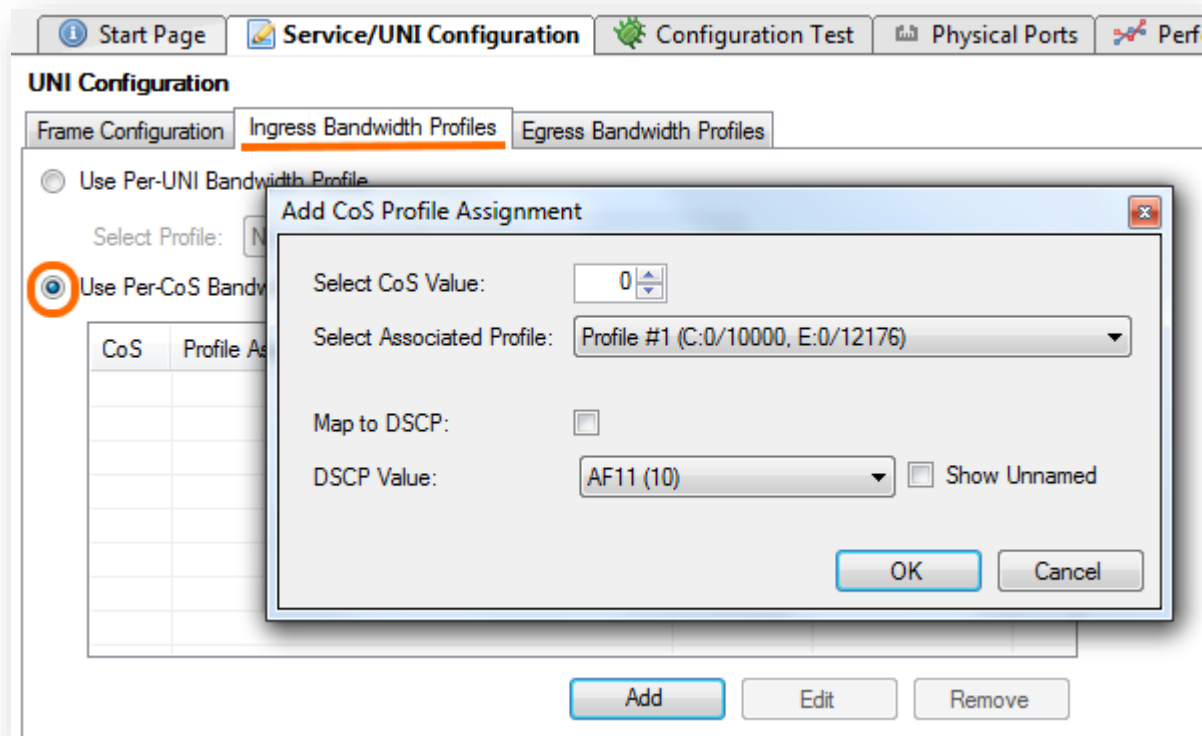
| CoS | Profile Assignment | Map DSCP | DSCP Val. |
|-----|--------------------|----------|-----------|
|-----|--------------------|----------|-----------|

Service/Uni Creation

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:



Service/Uni Creation

Egress Bandwidth Profiles

Per-UNI Bandwidth Profiles –

Select the Egress Bandwidth profile:

The screenshot shows the 'Service/UNI Configuration' window with the 'Egress Bandwidth Profiles' tab selected. Under 'UNI Configuration', the 'Use Per-UNI Bandwidth Profile' radio button is selected. A dropdown menu for 'Select Profile:' is open, showing three options: 'No profile selected', 'Profile #1 (C:0/10000, E:0/12176)', and 'Profile #2 (C:0/20000, E:0/12176)'. Below the dropdown is a table with columns: CoS, Profile Assignment, Map DSCP, and DSCP Val. The table is currently empty. At the bottom right are 'Add', 'Edit', and 'Remove' buttons.

| CoS | Profile Assignment | Map DSCP | DSCP Val. |
|-----|--------------------|----------|-----------|
|-----|--------------------|----------|-----------|

Configuration Test

Valkyrie1564 v1.28 - <no name>

File Edit View Test Control Options Help

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

Start Page Service/UNI Configuration Physical Ports **Configuration Test** Performance Test

Hold mouse over the various icons to view field explanation

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

Test Execution Parameters

Common Parameters

Iterations: 1

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

L3 Address Refresh

Refresh Enabled: ☒

Refresh Period: 4.00 seconds

Misc. Settings

Latency Mode: Last-To-Last

Frame Sizes

Software Controlled Sizes

☐ ITU-T 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

Idle

Test not running Elapsed: 00:00:00 User: ole

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 $CIR * (1 - \max_loss)$.

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:  

Step Duration:  seconds 



Break Test On Fail:  ☐



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:  % of CIR 

Step Rate:  % 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:  % 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

ITU-T Default:

The default setting is to use the ITU-T 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: 100 End size: 1500 Step size: 100

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

Incrementing Sizes: ☒ Incrementing Min. size: 64 Max. size: 1500


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: 64 Max. size: 1500



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.

The screenshot shows a dialog box titled "Mixed Weights Configuration". It contains a text area with the instruction: "This form enable you to configure the percentage weights for the 'Mixed Sizes' packet size mode. The sum of all weights must be 100." Below this, there are two rows of spin boxes. The first row is labeled "Packet Sizes:" and contains 15 boxes with values: 56, 60, 64, 70, 78, 92, 256, 496, 512, 570, 576, 594, 1438, 1518, 9216, 16360. The second row is labeled "Weights:" and contains 15 spin boxes with values: 0, 0, 0, 0, 57, 3, 5, 1, 2, 5, 1, 4, 4, 18, 0, 0. Below the spin boxes, it says "Average Packet Size: 464.000 bytes" and "Validation State: The sum of packet weights is 100%." At the bottom, there are three buttons: "Set Default", "OK", and "Cancel".

| 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%.

Buttons: Set Default, OK, Cancel

**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

Valkyrie1564 v1.28 - <no name>

File Edit View Test Control Options Help

... Add Chassis Create Service Start Configuration Test

Physical Ports Configuration Test **Performance Test** Bandwidth Profiles

Hold mouse over the various ? icons to view field explanation

Test Period

☒ 15 Minutes ☐ Unbounded **1**

☐ 2 Hours ☐ Custom Period:

☐ 24 Hours (HH:MM:SS)

L3 Address Refresh

Refresh Enabled: ☒ **3**

Refresh Period: seconds

Availability Settings

Frame Loss Ratio for SES: **2**

Misc. Settings

Latency Mode:

Frame Sizes

Software Controlled Sizes

☐ ITU-T Default ? 64,128,256,512,1024,1280,1518

☐ Custom Sizes ?

☐ Size Range ? Start size: End size: Step size:

Hardware Controlled Sizes

☐ Incrementing ? Min. size: Max. size:

☐ Butterfly Sizes ?

☐ Random Sizes ?

☒ Mixed Sizes ? **4**

Result Data Grid

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

Performance Test

1

Time Period: Select how long you would like to run the test.

Unbounded mean it will stopped manually by the user.

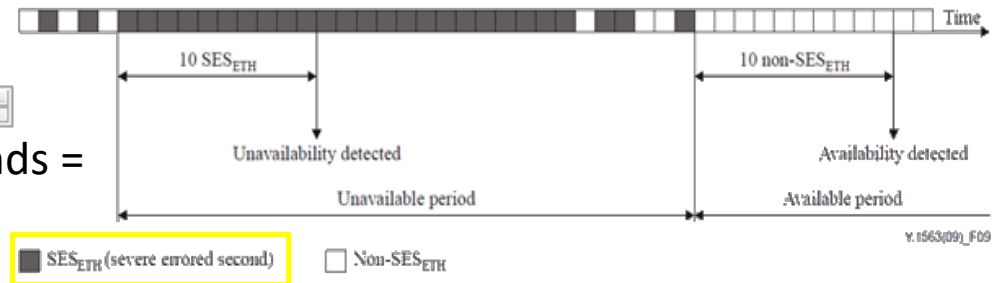
☒ 15 Minutes ☐ Unbounded
☐ 2 Hours ☐ Custom Period:
☐ 24 Hours (HH:MM:SS)

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

ITU-T Default:

The default setting is to use the ITU-T 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: 100 End size: 1500 Step size: 100

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

Incrementing Sizes: ☒ Incrementing Min. size: 64 Max. size: 1500

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,...

Random Sizes:

☐ Incrementing ☐ Butterfly Sizes ☒ Random Sizes

Min. size: 64 Max. size: 1500



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

Performance Test

4

Mixed Sizes:

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

The screenshot shows a dialog box titled "Mixed Weights Configuration". It contains a text area with instructions: "This form enable you to configure the percentage weights for the 'Mixed Sizes' packet size mode. The sum of all weights must be 100." Below this is a table with two rows: "Packet Sizes" and "Weights". The "Packet Sizes" row lists 16 values: 56, 60, 64, 70, 78, 92, 256, 496, 512, 570, 576, 594, 1438, 1518, 9216, and 16360. The "Weights" row shows corresponding percentage values in input boxes: 0, 0, 0, 0, 57, 3, 5, 1, 2, 5, 1, 4, 4, 18, 0, and 0. Below the table, it displays "Average Packet Size: 464.000 bytes" and "Validation State: The sum of packet weights is 100%". At the bottom, there are three buttons: "Set Default", "OK", and "Cancel".

| 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%.

Buttons: Set Default, OK, Cancel

**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

Valkyrie1564 v1.28 - <no name>

File Edit View Test Control Options Help

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

Physical Ports Configuration Test Performance Test Bandwidth Profiles **Reporting Options**

Report Identification

Customer Name:

Customer Service ID:

Customer Access ID:

Comments:

Report Generation Options

Report Naming

Report Filename Prefix:

Append Timestamp to Filename: ☒

Report Content

Include Stream Information in Report: ☐

Include Charts in Report: ☒

Throughput Unit for Charts:

Report Formats

☒ Generate PDF Report

☐ Generate XML Report

Result Data Grid

Idle

Test not running Elapsed: 00:00:00 User: ole

2

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/Access Id: Customer Service 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: | <input type="text" value="xena1564-report"/> |
| Append Timestamp to Filename: | <input checked="" type="checkbox"/> |

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: Frames/s ▼

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](#).



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