



CHIMERA

A STEP-BY-STEP GUIDE

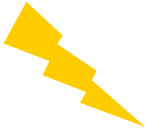
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Add Chassis



Add/Configure Module(s) and Port(s)



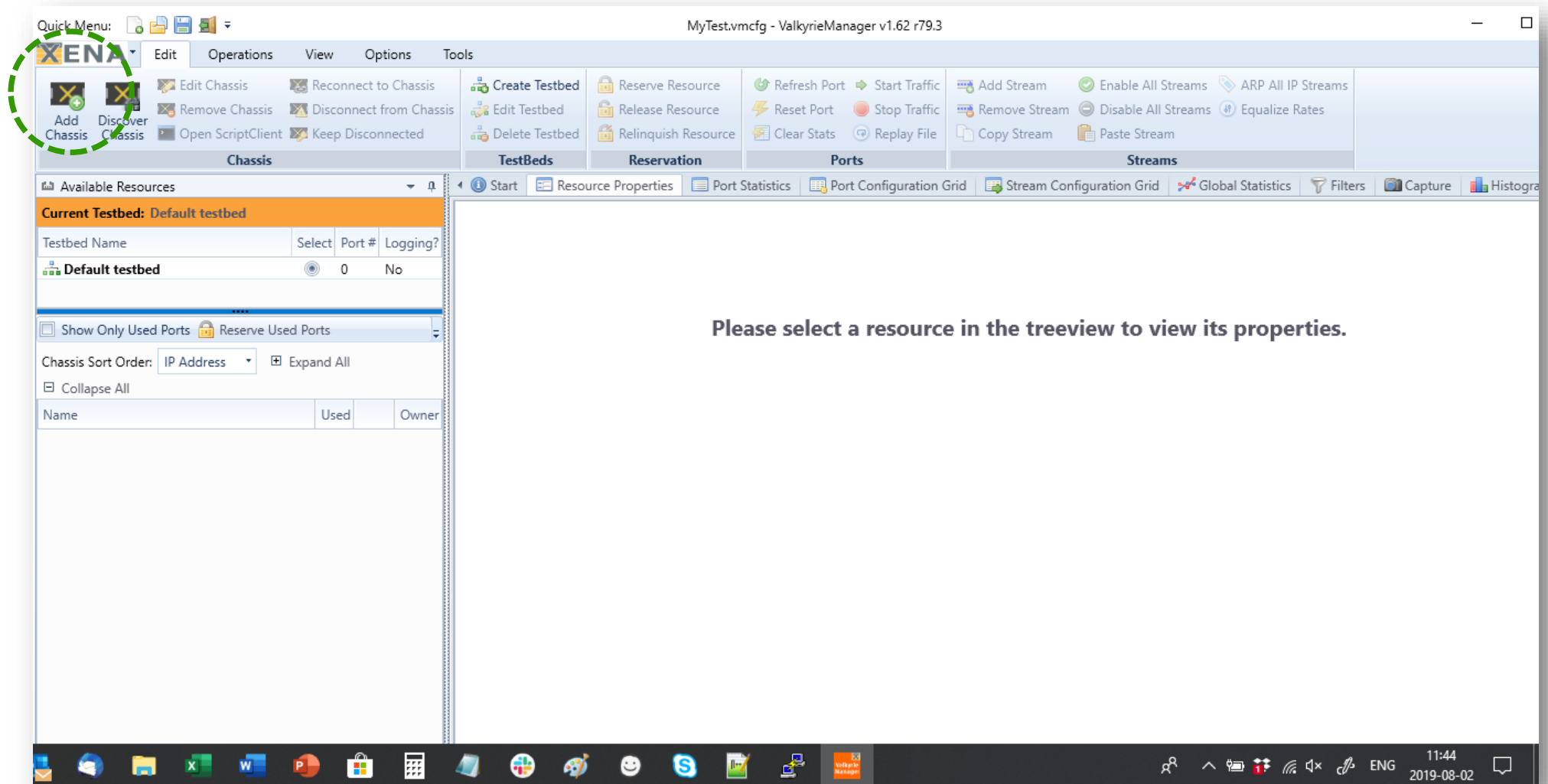
Configure Streams



Port Statistics

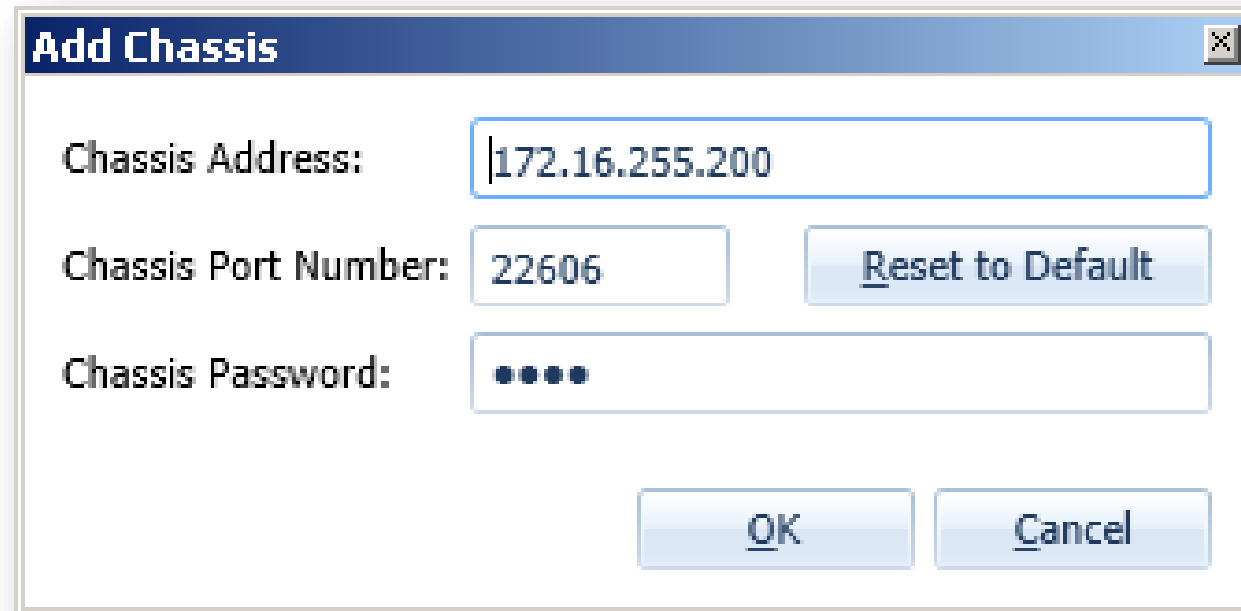
Add Chassis

Click “Add Chassis” button.



Add Chassis

Enter IP address of Management port under “Chassis Address:”
Default “Chassis Password” is xena



Add Chassis

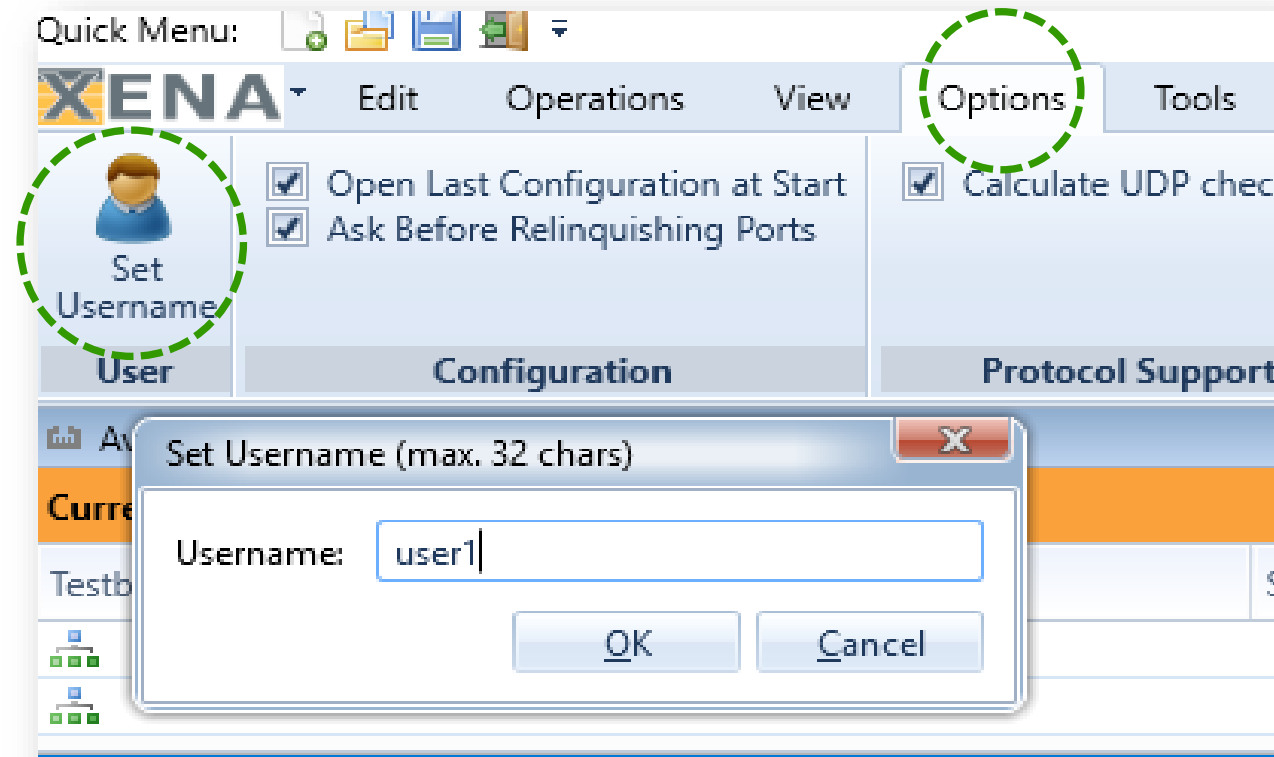
Chassis Address:

Chassis Port Number:

Chassis Password:

Add Chassis

Use **Options > Set Username** to indicate who owns the port reservation:



Configure Module

1 Description: Module Description text

2 Port Configuration: Set port speed

The screenshot displays the 'Module Properties' configuration page in the XENA Networks management interface. The page is divided into several sections:

- Identification:** Module Name: Chimera-100G-5S-2P, Module Model: XE2QSFP28V, Module Description: (empty text box with a green '1' callout), Serial Number: 538583, Version Number: 298, Firmware: (Upgrade Firmware button), Port Count: 2.
- Timing Configuration:** Timing Source: Local Chassis Time (dropdown), Local Clock Adjustment: 0 ppm.
- Media Configuration:** CFP Type: CFP (Not Present), Media Configuration: QSFP28 (NRZ) (dropdown), Port Configuration: 2 x 100G (dropdown with a green '2' callout).
- Reservation:** Reserved By: user1.
- Status:** Module Temperature: 41 °C.

The interface includes a top navigation bar with tabs for Start, Resource Properties, Port Statistics, Port Configuration Grid, Stream Configuration Grid, Global Statistics, and Filters. A green sidebar is visible on the left side of the image.

Add Port

1 Select the Port/s you want to use:

Name	Used	Owner
Chassis 20 'Live Demo 2400G' (176.22)		
Chassis 13 'Live Demo 2400G' (192.16)		
Module 0 'Loki-100G-5S-2P'		
Port 0 'QSFP28 100G CR4'	<input type="checkbox"/>	
Port 1 'QSFP28 100G CR4'	<input type="checkbox"/>	
Module 2 'Chimera-100G-5S-2P'		
Port 0 'QSFP28 100G CR4'	<input checked="" type="checkbox"/>	
Port 1 'QSFP28 100G CR4'	<input checked="" type="checkbox"/>	
Module 4 'Thor-400G-7S-1P'		
Port 0 'QSPDD 400G DAC'	<input type="checkbox"/>	
Module 7 'Loki-100G-5S-2P'		
Port 0 'QSFP28 100G AOC'	<input type="checkbox"/>	
Port 1 'QSFP28 100G AOC'	<input type="checkbox"/>	
Chassis 5 'L23 Live Demo' (192.168)		
Module 0 'Loki-100G-3S-1P-B'		
Module 1 'Odin-10G-5S-6P-CU'		
Module 2 'Odin-10G-1S-6P'		
Module 3 'Odin-10G-1S-2P'		

2 Click "Reserve Used Ports"
Check "Show Only Used Ports"

Name	Used	Owner
Chassis 20 'Live Demo 2400G' (176.22)		
Chassis 13 'Live Demo 2400G' (192.16)		
Module 2 'Chimera-100G-5S-2P'		
Port 0 'QSFP28 100G CR4'	<input checked="" type="checkbox"/>	user1
Port 1 'QSFP28 100G CR4'	<input checked="" type="checkbox"/>	user1
Chassis 17 'New chassis' (192.168.1.20)		

TIP: Right-click the ports, modules or chassis to see additional options e.g.:

	Stream Headers from PCAP
	Release Port
<input type="checkbox"/>	Un-use Port
	Load Port Configuration
	Save Port Configuration
	Refresh Port
	Reset Port

Configure Port

Select the port/s to configure and click “Resource Properties” tab:

The screenshot shows the 'Port Properties' configuration window for a port named 'P-13-2-0'. The 'Description' field is set to 'Port number 0' and is highlighted with a green box containing the number '1'. The interface includes several sections: Identification, TX Control, Misc. Settings, Multi Flow, and Layer-1 Control. The 'Multi Flow' section has 'Multi Flow Enable' checked, 'Flow Discovery' set to 'Flow Discovery', and 'Multi Flow Output' set to 'Flow Priority'. The 'Layer-1 Control' section shows 'Current Port Speed' and 'Effective Port Speed' both at 100 Gbit/s, with 'Auto-Negotiation Enable' unchecked. The 'TX Control' section shows 'Sync Status' as 'IN SYNC', 'Traffic Status' as 'OFF', and 'Enable TX Output' checked. The 'Misc. Settings' section has 'Flash Port LED' unchecked.

1 Description: Port Description text

Configure Port Impairments

Use the Impairments Config tab to configure the parameters you want to test.

The screenshot shows the 'Impairments Config' tab in the XENA Networks interface. The interface is divided into several sections, with five green callout boxes highlighting key features:

- 1**: Points to the 'Port Associations' section, which lists 'Chimera Port: P-13-2-0 (QSFP28 100G CR4)' and 'Valkyrie Port: No associated Valkyrie port.' The 'Emulate' checkbox is checked.
- 2**: Points to the 'Emulate' checkbox in the 'Port Associations' section.
- 3**: Points to the 'Impairments Mode' dropdown menu, which is set to 'Configure', and the 'Direction' section, which is set to 'Port 0 → Port 1'.
- 4**: Points to the 'Packet Manipulation' section, which includes 'Duplication', 'Packet Drop', and 'Misordering' options. The 'Packet Drop' probability is set to 10.0000%.
- 5**: Points to the 'Latency/Jitter' section, where the 'Latency Type' is set to 'Constant' and the 'Value' is 200000 ns.

The interface also includes a 'Library' section and a 'Bandwidth' section with 'Bandwidth Control' and 'Shaping' options.

Configure Port Impairments

- 1 Port Associations:** If the Chimera port is connected to a Valkyrie port: Simultaneously select the Chimera port and the Valkyrie port and right click. You can then associate the ports. This will let you configure impairments under the Valkyrie port resource properties
- 2 Emulate:** Check to activate the Chimera port
- 3 Bidirectional:** Click to have same impairment settings in both directions
- 4 Packet Drop:** Activate packet drop by selecting “Random” and set drop probability
- 5 Latency/Jitter:** Activate latency by selecting “Constant” and set latency value

Port Statistics

- 1 Traffic direction through the Chimera module. In the example below the receive statistical counters for port 0 and transmit statistical counters for port 1 on the same page.

The screenshot displays the 'Port Statistics' window with the following sections:

- Port 1 Transmit Statistics:** Includes a table with columns for Counter Type, Rate Percent, Bit Rate (L1), Bit Rate (L2), Packet Rate, Bytes, and Packets. The 'Totals' section shows zero values for all metrics.
- Error Injection:** A table with columns for FCS, Sequence, Misordered, Integ.Err, TID Err, and Drop, all showing 'N/A'.
- Port 0 Receive Statistics:** Includes a table with columns for Counter Type, Rate Percent, Bit Rate (L1), Bit Rate (L2), Packet Rate, Bytes, and Packets. The 'Totals' section shows zero values for all metrics.

Green callout boxes with the number '1' highlight the traffic direction indicators: 'Port 0 ⇒ Port 1' in the Port 1 Transmit Statistics section and 'Port 0 ⇒ Port 1' in the Port 0 Receive Statistics section.



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CHIMERA
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