Demonstration Port

Configuration Guide

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Purpose

This Guide explains how to load a port configuration file. This saves time if you have a standard set of features and functions you want to use and is also useful for quickly demonstrating key features.

The configuration file is a notepad file with a simple list of settings arranged in an order that ValkyrieManager can easily interpret. The syntax is straight-forward so you can make changes to the file using any text editor and saving it as a ".xpc" file.

You can download the file here - FeatureDemo.zip

Requirements

To use this guide you will need access to a Xena chassis and ValkyrieManager. You can also do this online via Xena's public demo unit which can be found here: https://xenanetworks.com/live-demo/

Instructions

First launch ValkyrieManager and connect to the chassis.

If you are using the public demo unit follow these steps:

1. Visit this [URL](URL) and download the ValkyrieManager software
2. Double-click to launch the .exe file
3. On the left, click on "Add Chassis"
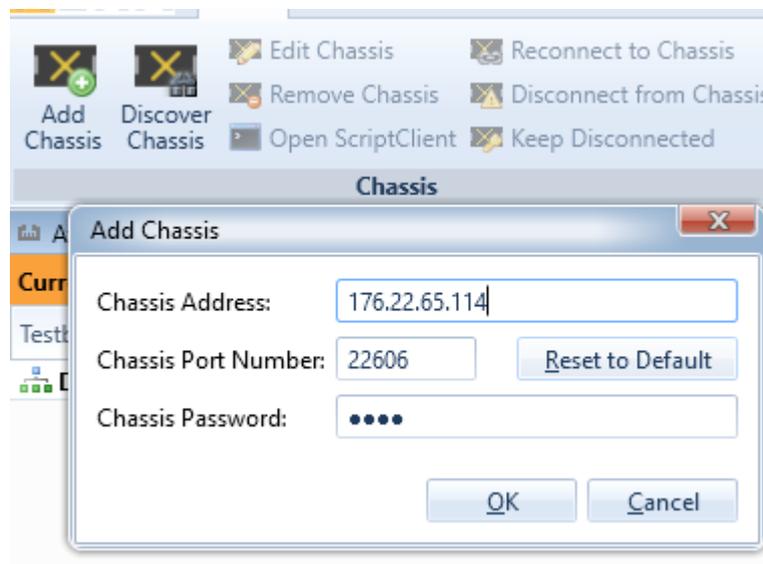
4. In the dialog box enter IP address = "176.22.65.114" and password = "xena". Click "Ok".
5. You are now connected to the Xena "L23 Live Demo" chassis

Now reserve a port.

1. Under the tab "Options" select "Set User Name" and enter your name or initials.
2. Reserve a port by right-clicking on the port in the "Available Resources" tree and select "Reserve Port" in the pop-up menu.

Finally, load the configuration file

The final step is to load the configuration file you downloaded earlier.

1. Right-click the port you just reserved and choose "Use Port"
2. Right-click the port you just reserved and choose "Load Port Configuration"

You can load the configuration file on a port on any test module. You in most cases get one or more messages/warning. Just click OK to all and the configuration file will be loaded on the port.
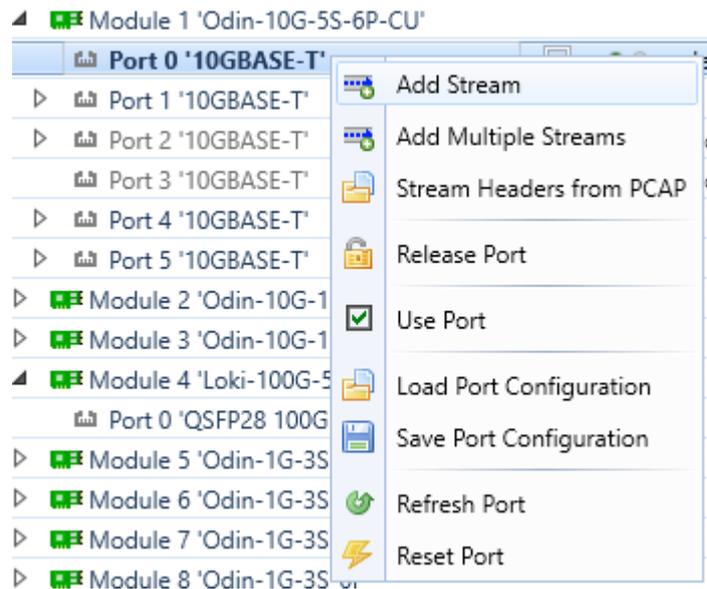
Explanation

The demonstration port configuration file is set up to provide the following:

- It is for a single port
- It puts the port into loop mode
- On the "Stream Configuration Grid" tab you will see four stream definitions
- On the "Global Statistics" tab press "START" to get it all going
- The first three streams use TIDs 7, 8, and 9, whereas the last one has no test payload
- On the "Global Statistics" tab, in "Stream Statistics" you can see transmit and receive statistics for the 3 streams with TIDs
- On the "Capture"/"Capture Results" click on a packet where the "Protocol" start with ETHERNET/IP/UDP
- In the decode at the bottom of the screen you can see the value of the "Type of service" and "Dst IP addr" fields
- The payload contains a repeated pattern of the 3-character string 'Hey'
- In "Capture Graph" you can see a butterfly length distribution
- On the "Histograms" tab there is one histogram showing a uniform random packet length distribution
- And another showing the two spikes of a bursty IFG distribution
- On the "Filters" tab there is one filter picking out a specific destination IP address
- And another that looks for a range of lengths to a particular destination MAC address
- In "Global Statistics"/"Port Statistics" you can expand the "Filter traffic:" subsection and see the two filters