

Day 7 – Use Overload Manager to quickly adjust stat views

Testing Challenge:

Analyzing parameters of the device and systems under tests require a flexible solution for customizing the statistics output offered by the testing tool. Additional statistics are needed in some cases, while in other cases some are not needed at all. The need to enable/disable statistics to make room for others may be required.

IxNetwork 5.40 Solution:

IxNetwork 5.40 now offers a new tool to provide a quick way to enable or disable views and statistics of interest. This is called Overload Manager and you can access it from the upper left corner of the statistics window.

The screenshot shows the IxNetwork 5.40 interface. In the top-left corner of the 'Statistics' window, the 'Overload Manager' icon is highlighted with a red box. The 'Overload Manager' dialog box is open, displaying a 'Resource Summary' bar chart. The chart shows the current usage and maximum limits for four resources: Views (25.000%), Protocol Statistics (0.528%), Traffic Statistics (0.425%), and Port CPU Load (83.333%). A 'Statistics Overload Index' is shown as 0.066%. The dialog also includes a 'Details' section with icons for Views, Statistic Subscriptions per port, Protocol Statistics, and Traffic Statistics. A legend at the bottom explains the chart colors: Views (orange), Protocol Statistics (green), Traffic Statistics (purple), and Port CPU Load (brown). The dialog has 'Refresh', 'Apply', 'Cancel', and 'Help' buttons at the bottom.

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From Overload Manager you can easily disable data collection on one of several views or you can customize the statistics that you wish to see in existing views, hiding the ones that you don't need at that moment.

The screenshot displays the OverLoad Manager interface. The main window is titled "StarViewer" and shows a "Statistic Distribution : Traffic" view. A progress bar indicates the "Actual number of statistic subscriptions" is 45, which is within the "Limit" of 20000. A green message states "Current usage is within the recommended limit." Below this, a table lists various views and their associated statistics:

View	Statistics
<input checked="" type="checkbox"/> Flow Statistics	21
<input type="checkbox"/> Flow Detective	0
<input checked="" type="checkbox"/> Traffic Item Statistics	21
<input checked="" type="checkbox"/> Data Plane Port Statistics	
<input type="checkbox"/> User Defined Statistics	

A "Resource" dialog box is open, showing a list of statistics with checkboxes. The "Cut-Through Min Latency (ns)" is selected. Other statistics include Cut-Through Max Latency (ns), Cut-Through Avg Latency (ns), Rx Frames, Rx Frame Rate, First TimeStamp, Last TimeStamp, kRxFdFramesDelta, kRxFdTimestampDelta, Tx Frames, and Frames Delta. At the bottom of the main window, there are buttons for "Refresh", "Apply", "Cancel", and "Help". A warning message at the bottom left of the main window reads: "Please enable/disable the view in the list or remove statistics and click on 'Apply' button. Click on 'Refresh' button to get the view editable because they don't contain any statistics at this point."

The tool also offers you the status of current load for each statistics category in order to help you in configuring a successful combination of stats and stay within your hardware resources.

Conclusion:

The IxNetwork 5.40 Overload Manager is an easy, intuitive test tool, providing a simple way to customize the statistics you need, when you need them, at the same time preserving application resources to keep you, the tester, in control.