

# Queue Statistics on Sx500 Series Stackable Switches

## Objective

Queue management is used in Quality of Service (QoS) internetwork architecture. Queuing is a technique used in network devices like routers and switches to handle congestion. Packets are held in queues for processing. After processing they are sent to the destination. Queue statistics give the information about the number of packets forwarded and number of packets dropped depending upon the interface, queue and drop precedence.

The objective of this article is to guide you on how to add queue statistics for a particular interface on the Sx500 Series Stackable Switches.

## Applicable Devices

- Sx500 Series Stackable Switches

## Software Version

- 1.3.0.62

## Add Queues Statistics

Step 1. Log in to the web configuration utility and choose **Quality of Service > QoS Statistics > Queues Statistics**. The *Queues Statistics* page opens:

**Queues Statistics**

Refresh Rate:  No Refresh  
 15 sec.  
 30 sec.  
 60 sec.

Counter Set	Interface	Queue	Drop Precedence	Total Packets	Tail Drop Packets
1	GE1/1/1	1	All	18765	0

The *Queue Statistics* page displays the following information:

- Counter Set — Queue statistics for a particular counter set.
- Interface — Queue statistics for a particular interface.
- Queue — Packets are either forwarded or dropped from this queue.

- Drop Precedence — Queue statistics for a particular drop precedence value. More is the drop precedence value implies high probability of packets being dropped during congestion.
- Total Packets — The total number of packets forwarded or dropped.
- Tail Drop Packets — The percentage of packets that are dropped.

Step 2. (Optional) If you want to refresh the queue statistics periodically, choose the refresh time and then select the appropriate radio button. Select **No Refresh** radio button if you don't want to refresh the queue statistics.

Step 3. Click **Add**. The *Add Queues Statistics* window appears:

The screenshot shows a dialog box titled "Add Queues Statistics". It contains the following fields and options:

- Counter Set:** Radio buttons for "Set 1" (selected) and "Set 2".
- Interface:** Radio buttons for "Unit/Slot" (selected), "Port", and "All ports". Next to "Unit/Slot" is a dropdown menu showing "1/1". Next to "Port" is a dropdown menu showing "GE1".
- Queue:** Radio buttons for "1" (selected), "2", "3", "4", and "All".
- Drop Precedence:** Radio buttons for "Low", "High", and "All" (selected).

At the bottom of the dialog are two buttons: "Apply" and "Close".

Step 4. Choose the particular counter set value from the Select Counter Set drop-down list.

- Set 1 — This set contains all the interfaces and queues with high Drop Precedence.
- Set 2 — This set contains all the interfaces and queues with low Drop Precedence.

Step 5. Choose the interface port for which you want to add queues statistics. The possible options are:

- Unit No. — From the Unit/Slot drop-down list choose a particular value. It specifies the unit in stack.
- Port — From the Port drop-down list choose a port for which you want to add queue statistics.
- All Ports — Click the **All Ports** radio button if you want to add queue statistics on all the ports.

Step 6. Choose a particular queue from the Queue field for which you want to add the statistics and click the corresponding radio button. Click **All** radio button if you want add statistics on all the queues. The range of queue values is 1 - 4.

Step 7. Choose a particular drop precedence value from the Drop Precedence field and click the corresponding radio button. Drop precedence helps decide which packets have to be discarded during congestion. Packets with higher drop precedence are dropped earlier than the packets with low drop precedence value.

Step 8. Click **Apply**. The desired queue statistics are added. Click **Close** to return to the *Queue Statistics* page.