Quality of Service (QoS) Single Policer Configuration on Sx500 Series Stackable Switches

Objectives

Quality of Service (QoS) Policers are used to limit the rate of file-transfer traffic on a port. A single policer applies the QoS to a single class map and a single flow based on the QoS specification of the policer. The *Single Policer Statistics* page is used to track the number of In-Profile Bytes and Out-of-Profile Bytes the port receives. Traffic that meets the conditions of the class map of a single policer and falls within the rate limit of the policer will show up as In-Profile Bytes. Traffic that exceeds the rate limit defined by the single policer will show up as Out-of-Profile Bytes.

This article explains how to configure Single Policer Statistics on the Sx500 Series Stackable Switches.

Applicable Devices

- Sx500 Series Stackable Switches

Software Version

- 1.3.0.62

Single Policer Statistics

Add Statistics

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

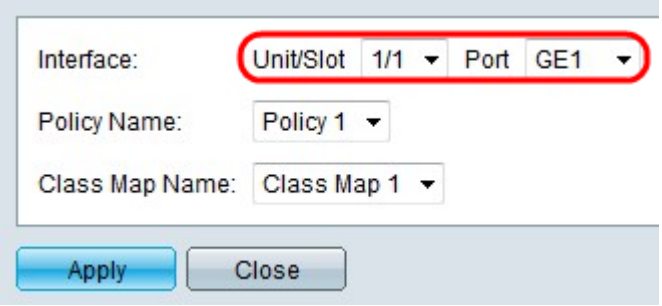
The *Single Policer Statistics* page displays the following information about the defined port.

- Interface — The port the statistics are defined for.
- Policy — The policy bound to the specified port.
- Class Map — The class map that is bound to the policy.

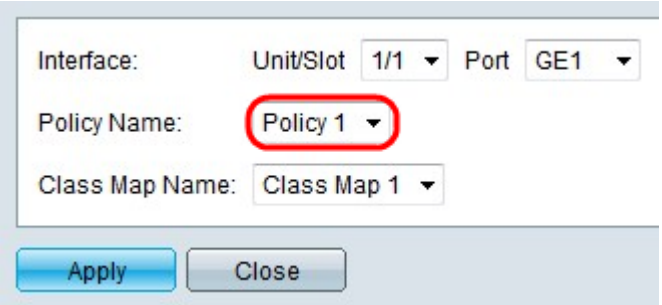
• In-Profile Bytes — Number of bytes that meet the condition of the class map of the single policer and are within the defined rate limit of the policer.

• Out-of-Profile Bytes — Number of bytes that meet the condition of the class map of the single policer and exceed the defined rate limit of the policer.

Step 2. Click **Add** to add single policer statistics to a port.

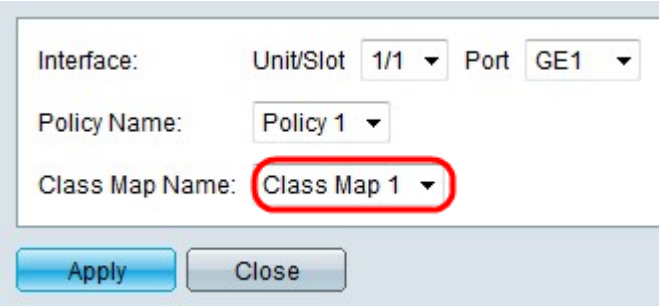


Step 3. Choose a port from the Unit/Slot and Port drop-down lists to view the statistics of that specified port.



Step 4. From the Policy Name drop-down list choose a policy that is bound to the port. The policy must be bound to the port to view statistics on the port.

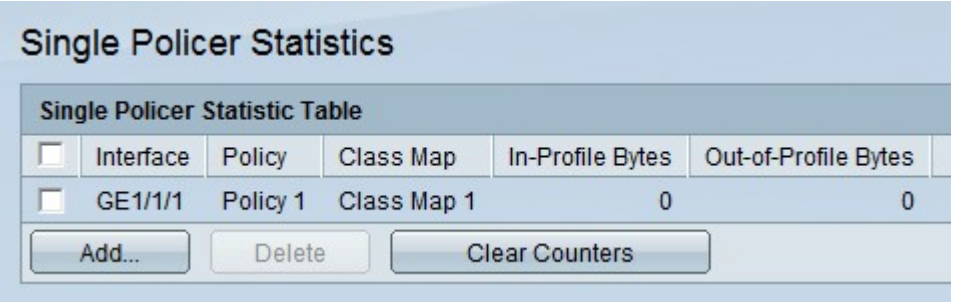
Note: Policers can be created on the *Policy Table* page. To create a policy; refer the article *Quality of Service (QoS) Policy Class Maps Configuration on Sx500 Series Stackable Switches.* Policers are bound to ports on the *Policy Binding* page. Refer the article *Quality of Service (QoS) Policy Binding Configuration on Sx500 Series Stackable Switches* for further detail information.



Step 5. From the Class drop-down list choose a class map that is bound to the chosen policy. The class map must be bound to the policy to view statistics on the port.

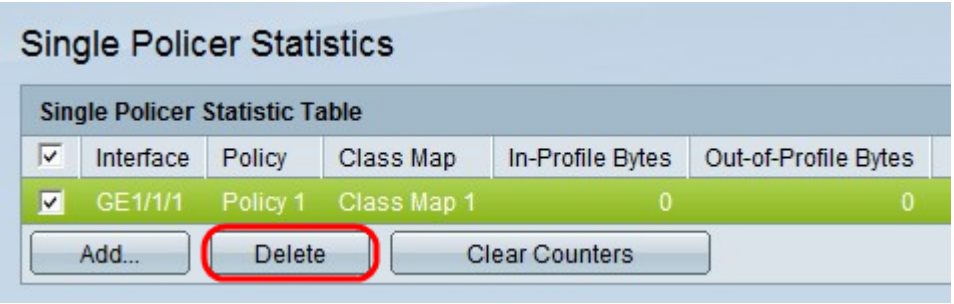
Note: Class Maps can be created on the *Class Mapping* page. Please refer to the article, *Define QoS Class Mapping on Sx500 Series Stackable Switches,* for this configuration.

Step 6. Click **Apply** to save the settings. The newly configured policer is added to the Single Policer Statistic Table as shown below.



Step 7. (Optional) The In-Profile Bytes and Out-of Profile Bytes fields shows the number of bytes that are transferred to the corresponding interface, click **Clear Counters** to reset the In-Profile Bytes and Out-of Profile Bytes fields to 0.

Delete Statistics



Step 1. Check the check box that corresponds to the desired port statistics that you want to delete.

Step 2. Click **Delete** to delete the statistics entry.