

View Quality of Service (QoS) Aggregate Policer Statistics on 300 Series Managed Switches

Objectives

QoS policies are used to limit traffic flow. An aggregate policer applies a QoS policy to one or more class maps. The aggregate policer applies the QoS policy over multiple flows of traffic. Incoming traffic is selected with an access list (ACL) and if there is an aggregate policer attached to that traffic class, then it is acted on by the QoS policy of the aggregate policer. Traffic that meets the conditions of the class map of an aggregate policer and falls within the rate limit of the policer will show up as In-Profile Bytes if an entry has been added to monitor that aggregate policer under the *Aggregate Policer Statistics* page. Matched traffic that exceeds the rate limit defined by the aggregate policer will show up as Out-of-Profile Bytes. Out-of-profile traffic may be dropped, modified, or left alone which depends on how the policy is configured.

A request to track statistics for an aggregate policer must be made before any statistics are recorded and available for viewing.

This article explains how to view aggregate policer statistics on the 300 Series Managed Switches.

Note: Policer configurations are available only in Layer 2 mode of the SG/SF 300 Series Managed Switches. For more information about general policer configurations, refer to the article *QoS Advanced Mode Configuration on 300 Series Managed Switches*.

Applicable Devices

- SF/SG 300 Series Managed Switches

Software Version

- v1.2.7.76

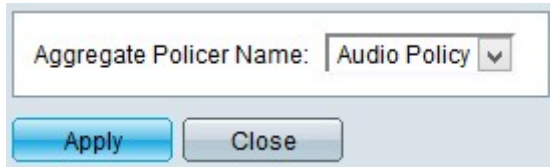
Track Aggregate Policer Statistics

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



Aggregate Policer Statistic Table		
Aggregate Policer Name	In-Profile Bytes	Out-of-Profile Bytes
0 results found.		
<div><button>Add...</button><button>Delete</button><button>Clear Counters</button></div>		

Step 2. Click **Add** to create a request for statistics to be tracked on an aggregate policer. The Add Aggregate Policer Statistic window appears.

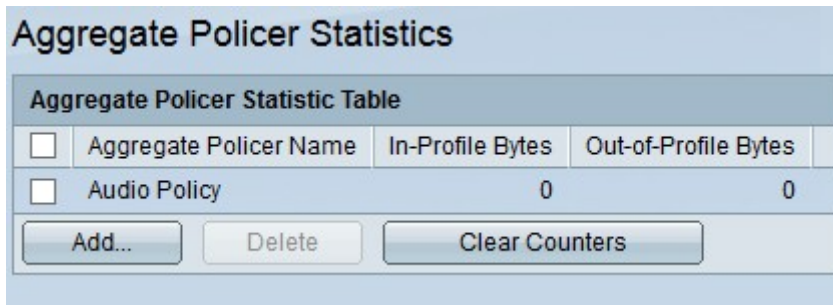
A small window titled "Add Aggregate Policer Statistic". It contains a label "Aggregate Policer Name:" followed by a drop-down menu showing "Audio Policy". Below the menu are two buttons: "Apply" and "Close".

Aggregate Policer Name:	Audio Policy
<input type="button" value="Apply"/> <input type="button" value="Close"/>	

Step 3. Choose from the Aggregate Policer Name drop-down list the aggregate policer you wish to keep a statistic record.

Step 4. Click **Apply** to save your configuration.

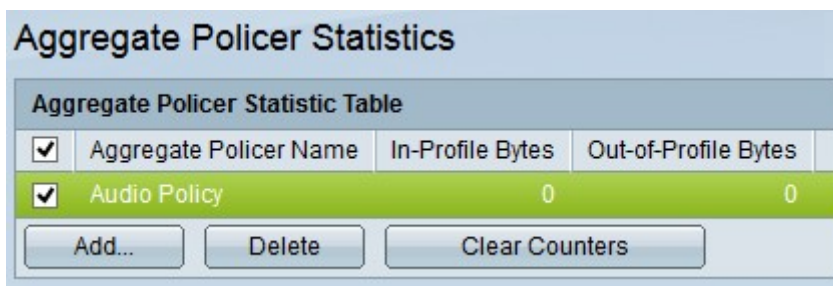
The picture below depicts the changes after your configuration.

A window titled "Aggregate Policer Statistics". It contains a table with the title "Aggregate Policer Statistic Table". The table has three columns: "Aggregate Policer Name", "In-Profile Bytes", and "Out-of-Profile Bytes". There is one row with "Audio Policy" in the first column, "0" in the second, and "0" in the third. Below the table are three buttons: "Add...", "Delete", and "Clear Counters".

Aggregate Policer Statistic Table		
<input type="checkbox"/> Aggregate Policer Name	In-Profile Bytes	Out-of-Profile Bytes
<input type="checkbox"/> Audio Policy	0	0

The Aggregate Policer Statistic Table provide the the next information:

- Aggregate Policer Name — The name of the aggregate policer that statistics are being tracked on.
- In-Profile Bytes — The number of bytes that meet the conditions defined by the class maps of the aggregate policer and fall within the specified rate limit of the policer.
- Out-of-Profile Bytes — The number of bytes that meet the conditions defined by the class maps of the aggregate policer and exceed the specified rate limit of the policer.

A window titled "Aggregate Policer Statistics". It contains a table with the title "Aggregate Policer Statistic Table". The table has three columns: "Aggregate Policer Name", "In-Profile Bytes", and "Out-of-Profile Bytes". There is one row with "Audio Policy" in the first column, "0" in the second, and "0" in the third. The row is highlighted in green. Below the table are three buttons: "Add...", "Delete", and "Clear Counters".

Aggregate Policer Statistic Table		
<input checked="" type="checkbox"/> Aggregate Policer Name	In-Profile Bytes	Out-of-Profile Bytes
<input checked="" type="checkbox"/> Audio Policy	0	0

Step 5. (Optional) To delete an entry in the Aggregate Policer Statistic Table, check the check box of the entry you wish to delete and click **Delete**.

Step 6. (Optional) To clear the counters of an entry in the Aggregate Policer Statistic Table, check the check box of the entry you wish to clear the counters and click **Clear Counters**.