Quality of Service (QoS) Policy Class Maps Configuration on Sx500 Series Stackable Switches

Objective

Quality of Service (QoS) Policy consists of predefined rules that can measure the rate of traffic on the interface. They are used to enforce limits such as limiting the rate of file transfer traffic on the port. This helps to ensure that the bandwidth is not exceeded. A class map defines the type of packets that are considered to belong to the same traffic flow.

This article explains how to configure QoS policy class maps on the Sx500 Series Stackable Switches.

Applicable Devices

Sx500 Series Stackable Switches

Software Version

• 1.3.0.62

Policy Class Maps

Step 1. Log in to the web configuration utility and choose **Quality of Service > QoS Advanced Mode > Policy Class Maps**. The *Policy Class Maps* page opens.

Step 2. From the Policy name drop-down list choose a policy.

Note: To create a new policy, click **Policy Table**. Please refer the section Policy Table Configuration in this article to configure the policy name.



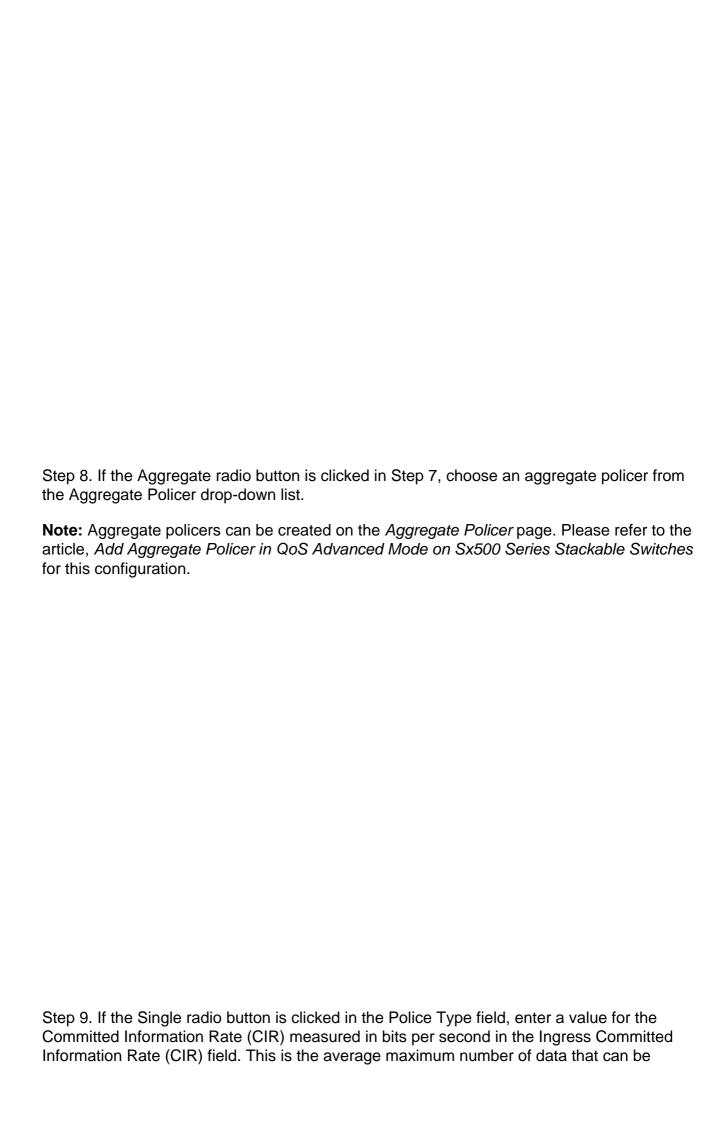
Note: Class Maps can be created on the <i>Class Mapping</i> page. Please refer to the article, <i>Define QoS Class Mapping on Sx500 Series Stackable Switches</i> , for this configuration.
Step 6. Click the radio button that corresponds to the desired action in the Action type field. This action regards the ingress CoS/802.1p and/or Differential Services Code Point (DSCP) value of all the matching packets.
• Use Default Trust Mode — Ignore the ingress CoS/802.1p and/or DSCP value. The matching packets are sent as best effort.
• Always Trust — The switch will trust CoS/802.1p and DSCP of the matching packet. If a packet is an IP packet, the switch will put the packet in the egress queue based on the DSCP value of the packet and the DSCP to Queue Table. If a packet is a non-IP packet, the switch will put the packet in the egress queue based on the CoS/802.1p value of the

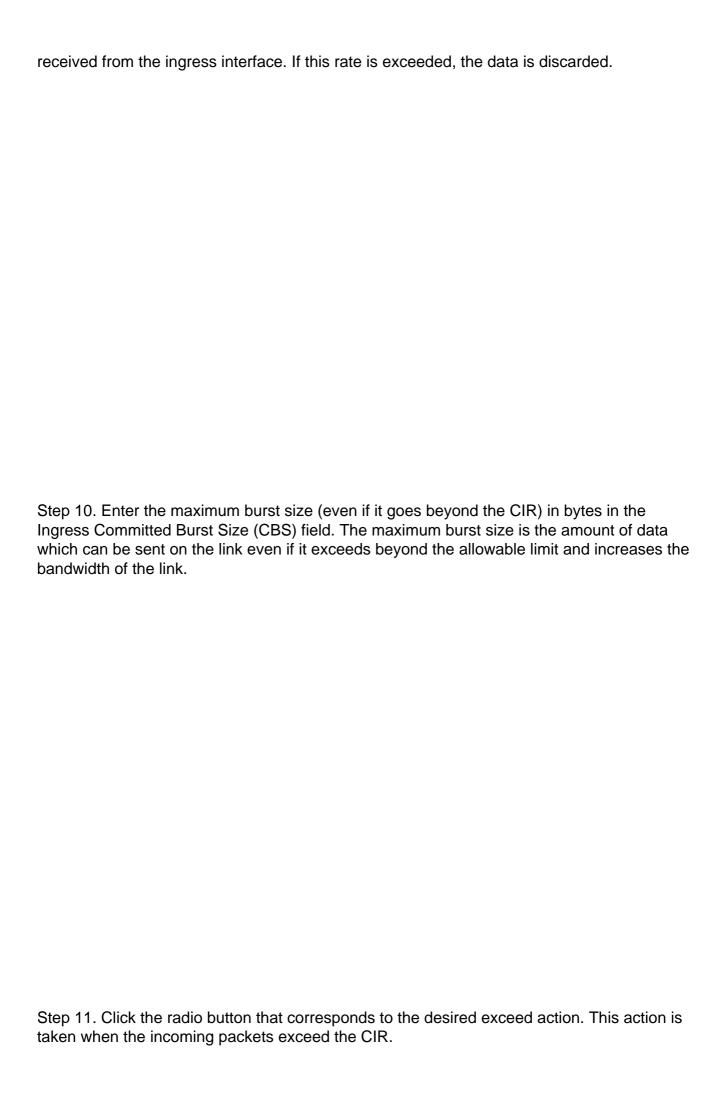
• Set — From the drop-down list choose a mode regarding the matching packets.

packet and the CoS/802.1p to Queue Table.

- DSCP Enter a value to determine the egress queue (0-63) in the New Value field.
 This value is based on the DSCP and the DSCP to Queue Table.
- Queue Enter a value to determine the egress queue (1-4) in the New Value field.
- CoS/802.1p Enter a value to determine the egress queue (0-7) in the New Value field. This value is based on the CoS/802.1p priority value and the CoS/802.1p to Queue Table.

5	Step 7. Click the radio button that corresponds to the desired policer type.
	• None — No policy is used.
	• Single — A single policer is used. A single policer applies the QoS to a single class map and a single flow based on the policer's QoS specification. Follow the steps from 9 to 11 if Single is chosen.
	• Aggregate — An aggregate policy is used. An aggregate policer applies the QoS to one or more class maps and one or more flows.





- None No action is taken.
- Drop Packets that exceed the defined CIR value are dropped.
- Out of Profile DSCP IP packets that exceed the defined CIR are forwarded with a new DSCP derived from the Out Of Profile DSCP Mapping Table.



Step 12. Click Apply.

Policy Table Configuration

Step 1. Log in to the web configuration utility to choose **Quality of Service > QoS Advanced Mode > Policy Table**. The *Policy Table* page opens.



Step 2. Click **Add** to add a Policy Name. The *Add Policy Table* window appears.



- Step 3. Enter the policy name in the New Policy Name field.
- Step 4. Click **Apply** to apply the settings.



Step 5. (Optional) Click **Delete** to delete the Policy Name.

Note: To go to the *Policy Class Map Table* page, Click Policy Class Map Table in the *Policy Table* page.