

Creating a Policy Map on the WAP131, WAP351, and WAP371

Objective

The Quality of Service (QoS) feature lets you prioritize certain types of traffic over others. This is important for letting important traffic with time-sensitive data (such as voice or multimedia) take higher precedence than less important traffic (such as FTP or email). A DiffServ (differentiated services) configuration implements QoS using DSCP (Differentiated Services Code Point) to classify packets of different services. A policy map dictates how packets that match certain criteria will be handled. When used in conjunction with a class map, which defines the criteria to be matched to, a DiffServ configuration can be created.

Note: A policy map cannot be created if there are no class maps. To create a class map, please follow the article [Creating a Class Map on the WAP131 and WAP351](#).

The objective of this document is to show you how to create and configure a policy map on the WAP131, WAP351, and WAP371.

Applicable Devices

- WAP131
- WAP351
- WAP371

Software Version

- v1.0.1.3 (WAP131, WAP351)
- v1.2.0.2 (WAP371)

Configuring Policy Maps

[Step 1](#). Log in to the web configuration utility and choose **Quality of Service > Policy Map** (on the WAP371, go to **Client QoS > Policy Map**). The *Policy Map* page opens. If there are no policy maps yet, only the *Policy Map Configuration* area will be displayed.

Policy Map

Policy Map Configuration

Policy Map Name: (1 - 31 Characters)

Policy Class Definition

Policy Map Name:

Class Map Name:

Police Simple: Committed Rate: (1 - 1000000 Kbps) Committed Burst: (1 - 204800000 Bytes)

Send:

Drop:

Mark Class Of Service: (Range: 0 - 7)

Mark IP DSCP: Select From List:

Mark IP Precedence: (Range: 0 - 7)

Disassociate Class Map:

Member Classes:

Delete Policy Map:

Step 2. Navigate to the *Policy Map Configuration* area. In the *Policy Map Name* field, enter the name of the new policy that you want to create.

Policy Map

Policy Map Configuration

Policy Map Name: (1 - 31 Characters)

Step 3. Click **Add Policy Map** to create the new policy map.

Policy Map

Policy Map Configuration

Policy Map Name: (1 - 31 Characters)

Step 4. Navigate to the *Policy Map Definition* area. In the *Policy Map Name* drop-down list, choose a policy map to configure.

Policy Class Definition

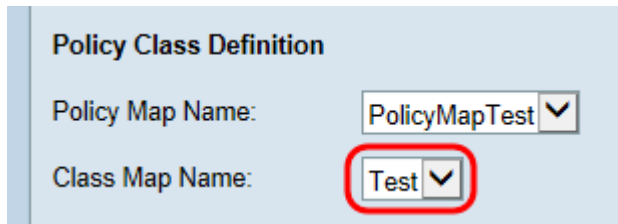
Policy Map Name:

Class Map Name:

Note: The drop-down list will show Policy Maps that have already been created. If you have

not created a map yet, please refer to [Step 1](#) on how to create the map.

Step 5. In the *Class Map Name* drop-down list, choose a class map to apply to the chosen policy map.



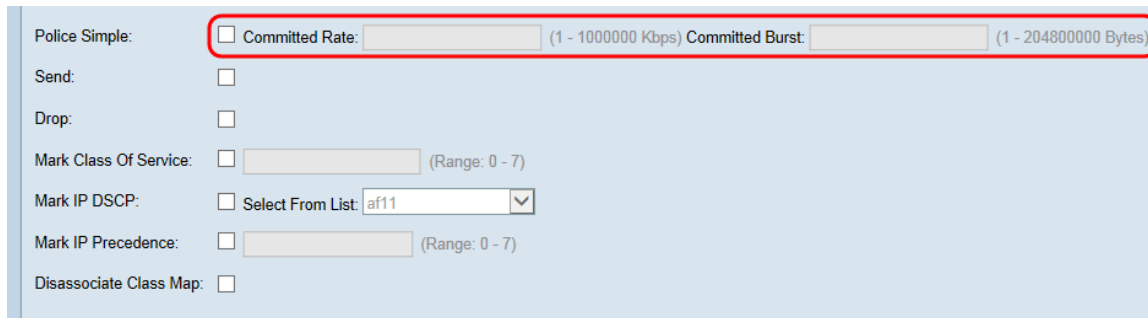
Policy Class Definition

Policy Map Name: PolicyMapTest

Class Map Name: Test

Note: The drop-down list will show Class Maps that have already been created. If you have not created a class map yet, please refer to [Creating a Class Map on the WAP131 and WAP351](#).

Step 6. Check the *Police Simple* checkbox to establish a data rate and burst size that traffic matched by the class map will follow. In the *Committed Rate* field, enter a rate from 1- 1000000 Kbps, and in the *Committed Burst* field, enter a burst size from 1- 204800000 Bytes.



Police Simple: Committed Rate: (1 - 1000000 Kbps) Committed Burst: (1 - 204800000 Bytes)

Send:

Drop:

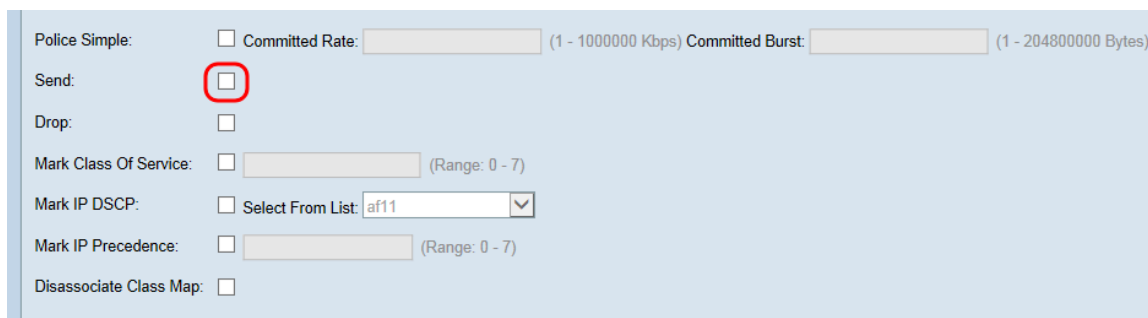
Mark Class Of Service: (Range: 0 - 7)

Mark IP DSCP: Select From List: af11

Mark IP Precedence: (Range: 0 - 7)

Disassociate Class Map:

Step 7. Check the *Send* checkbox to specify that all packets for the associated traffic stream will be forwarded if the class map criteria are met. This checkbox and the *Drop* checkbox cannot both be checked at the same time.



Police Simple: Committed Rate: (1 - 1000000 Kbps) Committed Burst: (1 - 204800000 Bytes)

Send:

Drop:

Mark Class Of Service: (Range: 0 - 7)

Mark IP DSCP: Select From List: af11

Mark IP Precedence: (Range: 0 - 7)

Disassociate Class Map:

Step 8. Check the *Drop* checkbox to specify that all packets for the associated traffic stream will be dropped if the class map criteria are met. This checkbox and the *Send*, *Mark Class of Service*, *Mark IP DSCP*, and *Mark IP Precedence* checkboxes cannot be checked at the same time.

Police Simple:	<input type="checkbox"/>	Committed Rate:	<input type="text"/>	(1 - 1000000 Kbps)	Committed Burst:	<input type="text"/>	(1 - 204800000 Bytes)
Send:	<input type="checkbox"/>						
Drop:	<input type="checkbox"/>						
Mark Class Of Service:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Mark IP DSCP:	<input type="checkbox"/>	Select From List:	af11	▼			
Mark IP Precedence:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Disassociate Class Map:	<input type="checkbox"/>						

Step 9. Check the *Mark Class of Service* checkbox to mark all packets from the associated traffic stream with a specified class of service value in the 802.1p header. If the packet doesn't contain a value, one is inserted; otherwise, the existing value is overwritten. Enter a CoS value from 0-7 in the text field, with 0 being the lowest value.

Police Simple:	<input type="checkbox"/>	Committed Rate:	<input type="text"/>	(1 - 1000000 Kbps)	Committed Burst:	<input type="text"/>	(1 - 204800000 Bytes)
Send:	<input type="checkbox"/>						
Drop:	<input type="checkbox"/>						
Mark Class Of Service:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Mark IP DSCP:	<input type="checkbox"/>	Select From List:	af11	▼			
Mark IP Precedence:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Disassociate Class Map:	<input type="checkbox"/>						

Step 10. Check the *Mark IP DSCP* checkbox to mark/overwrite all packets in the associated traffic stream with the selected DSCP value. Select a DSCP value from the *Select From List* drop-down list.

Police Simple:	<input type="checkbox"/>	Committed Rate:	<input type="text"/>	(1 - 1000000 Kbps)	Committed Burst:	<input type="text"/>	(1 - 204800000 Bytes)
Send:	<input type="checkbox"/>						
Drop:	<input type="checkbox"/>						
Mark Class Of Service:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Mark IP DSCP:	<input type="checkbox"/>	Select From List:	af11	▼			
Mark IP Precedence:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Disassociate Class Map:	<input type="checkbox"/>						

Note: Refer to [DSCP and Precedence Values](#) for further details on DSCP.

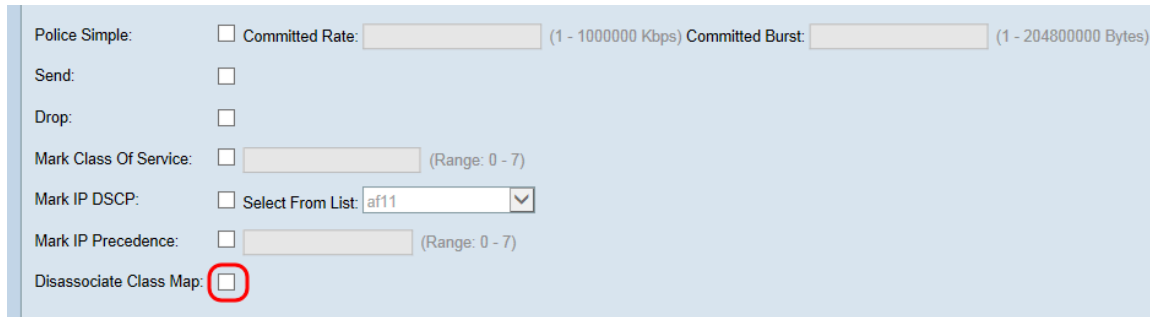
Step 11. Check the *Mark IP Precedence* checkbox to mark/overwrite all packets in the associated traffic stream with the specified IP precedence value. Enter an IP precedence value from 0-7, with 0 being the lowest.

Police Simple:	<input type="checkbox"/>	Committed Rate:	<input type="text"/>	(1 - 1000000 Kbps)	Committed Burst:	<input type="text"/>	(1 - 204800000 Bytes)
Send:	<input type="checkbox"/>						
Drop:	<input type="checkbox"/>						
Mark Class Of Service:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Mark IP DSCP:	<input type="checkbox"/>	Select From List:	af11	▼			
Mark IP Precedence:	<input type="checkbox"/>	<input type="text"/>	(Range: 0 - 7)				
Disassociate Class Map:	<input type="checkbox"/>						

Note: Refer to [DSCP and Precedence Values](#) for further details on IP Precedence.

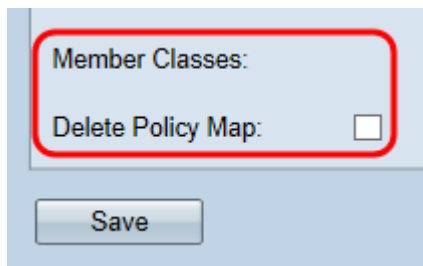
Step 12. Check the *Disassociate Class Map* checkbox to disassociate the current class map

from the current policy (specified in the *Policy Map Name* and *Class Map Name* fields, respectively).



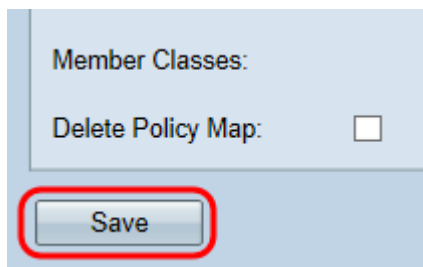
A screenshot of a configuration panel with a light blue background. It contains several settings, each with a checkbox and a text input field. The settings are: 'Police Simple' with a checkbox and two input fields for 'Committed Rate' (with '(1 - 1000000 Kbps)' next to it) and 'Committed Burst' (with '(1 - 204800000 Bytes)' next to it); 'Send' with a checkbox; 'Drop' with a checkbox; 'Mark Class Of Service' with a checkbox and an input field (with '(Range: 0 - 7)' next to it); 'Mark IP DSCP' with a checkbox, a 'Select From List' dropdown menu showing 'af11', and a small downward arrow; 'Mark IP Precedence' with a checkbox and an input field (with '(Range: 0 - 7)' next to it); and 'Disassociate Class Map' with a checkbox that is circled in red.

Step 13. The *Member Classes* field displays all of the class maps currently associated with the selected policy. If no classes are currently associated, the field is blank. To delete the current policy, check the *Delete Policy Map* checkbox.



A screenshot of a configuration panel section. It features a 'Member Classes' label above a red-bordered rounded rectangle. Below this is the 'Delete Policy Map' label followed by an unchecked checkbox. At the bottom of the section is a 'Save' button.

Step 14. Click **Save**.



A screenshot of the same configuration panel section as in Step 13. The 'Member Classes' field is empty. The 'Delete Policy Map' checkbox is still unchecked. The 'Save' button at the bottom is now circled in red.

Note: Settings cannot be saved if none of the checkboxes have been checked.