



Article ID: 5093

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

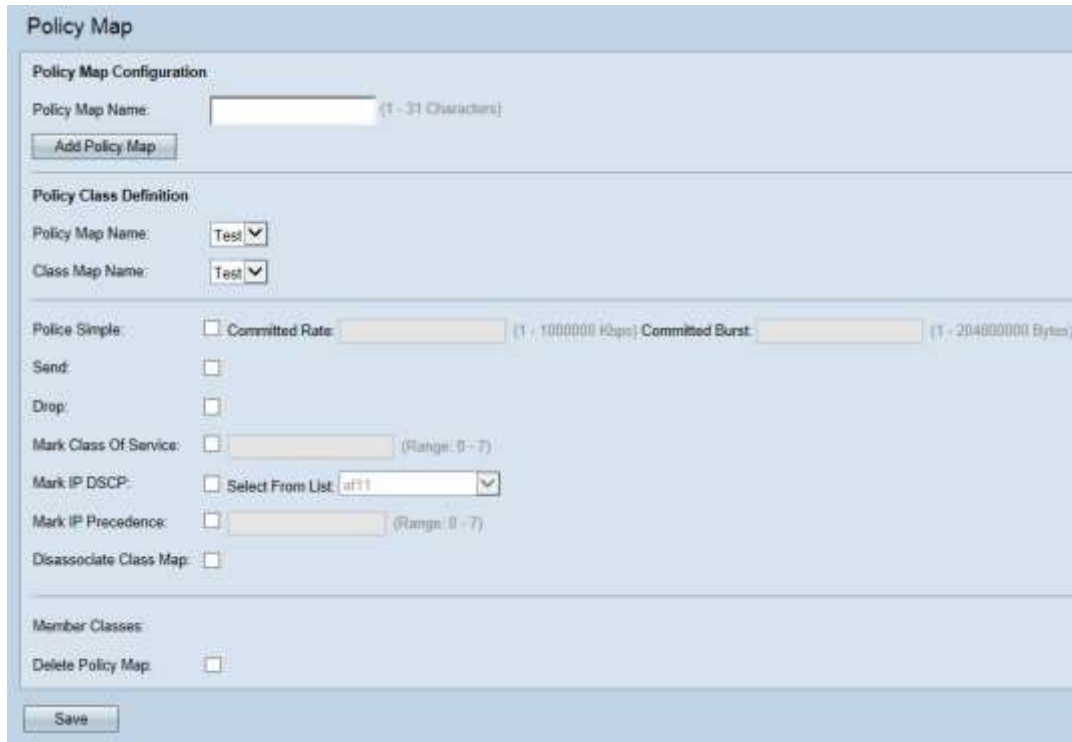
- WAP131
- WAP351
- WAP371

Software Version

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

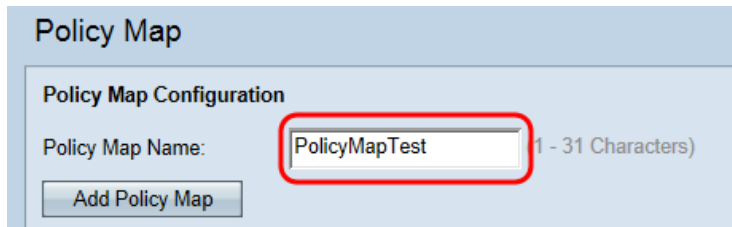
Configuring Policy Maps

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.



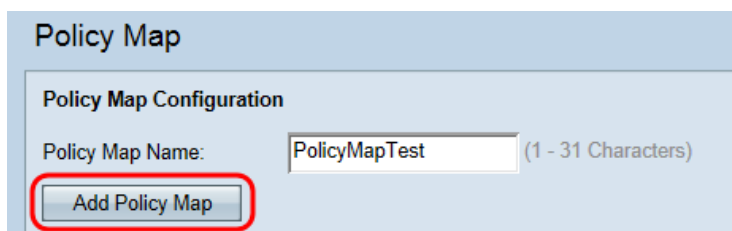
The screenshot shows the 'Policy Map' configuration page. It has a title bar 'Policy Map' and a section 'Policy Map Configuration'. Inside this section, there is a 'Policy Map Name' field with a text input and a '(1 - 31 Characters)' label. Below the field is an 'Add Policy Map' button. The section is followed by 'Policy Class Definition', which includes 'Policy Map Name' and 'Class Map Name' dropdown menus, both set to 'Test'. Below these are several checkboxes and input fields: 'Police Simple' (unchecked), 'Committed Rate' (input field with '(1 - 1000000 Kbps)' label), 'Committed Burst' (input field with '(1 - 204800000 Bytes)' label), 'Send' (unchecked), 'Drop' (unchecked), 'Mark Class Of Service' (input field with '(Range: 0 - 7)' label), 'Mark IP DSCP' (input field with 'Select From List' dropdown and 'all' value), 'Mark IP Precedence' (input field with '(Range: 0 - 7)' label), and 'Disassociate Class Map' (unchecked). At the bottom of the configuration area is a 'Member Classes' section with a 'Delete Policy Map' checkbox. A 'Save' button is located at the very bottom of the page.

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.



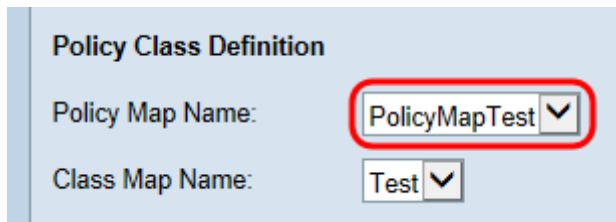
This screenshot shows the 'Policy Map Configuration' section of the 'Policy Map' page. The 'Policy Map Name' field is highlighted with a red rectangle and contains the text 'PolicyMapTest'. The '(1 - 31 Characters)' label is visible to the right of the field. The 'Add Policy Map' button is located below the field.

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



This screenshot shows the 'Policy Map Configuration' section of the 'Policy Map' page. The 'Policy Map Name' field contains 'PolicyMapTest' and is labeled '(1 - 31 Characters)'. The 'Add Policy Map' button is highlighted with a red rectangle.

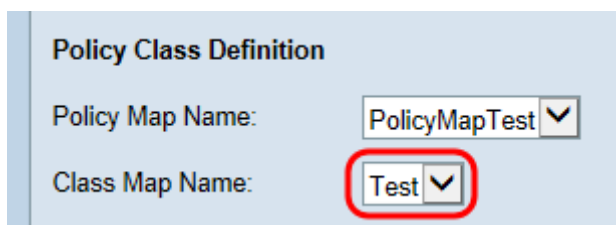
Step 4. Navigate to the *Policy Map Definition* area. In the *Policy Map Name* drop-down list, choose a policy map to configure.



The screenshot shows a form titled "Policy Class Definition". It contains two dropdown menus. The first is labeled "Policy Map Name:" and has "PolicyMapTest" selected. The second is labeled "Class Map Name:" and has "Test" selected. Both dropdown menus are circled in red.

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.

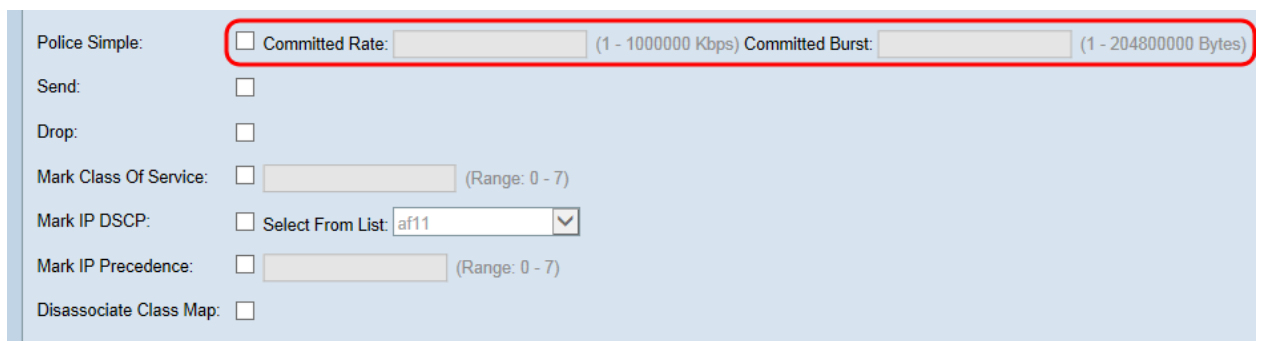
Step 5. In the *Class Map Name* drop-down list, choose a class map to apply to the chosen policy map.



The screenshot shows a form titled "Policy Class Definition". It contains two dropdown menus. The first is labeled "Policy Map Name:" and has "PolicyMapTest" selected. The second is labeled "Class Map Name:" and has "Test" selected. Both dropdown menus are circled in red.

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.



The screenshot shows a form titled "Police Simple". It contains several fields and checkboxes. The "Police Simple:" checkbox is checked. Below it are fields for "Committed Rate:" and "Committed Burst:". The "Committed Rate:" field has a value of "1" and a range of "(1 - 1000000 Kbps)". The "Committed Burst:" field has a value of "1" and a range of "(1 - 204800000 Bytes)". Other fields include "Send:", "Drop:", "Mark Class Of Service:", "Mark IP DSCP:", "Mark IP Precedence:", and "Disassociate Class Map:". The "Mark IP DSCP:" field has a value of "af11" and a range of "(Range: 0 - 7)".

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: ▼

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: ☐ 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: ☐

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

Send: ☐

Drop: ☐

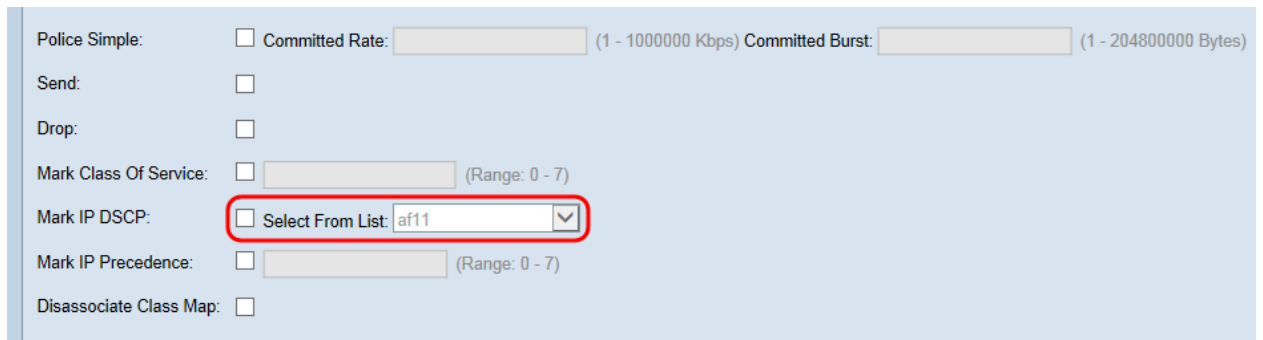
Mark Class Of Service: ☒ (Range: 0 - 7)

Mark IP DSCP: ☐ Select From List: ▼

Mark IP Precedence: ☐ (Range: 0 - 7)

Disassociate Class Map: ☐

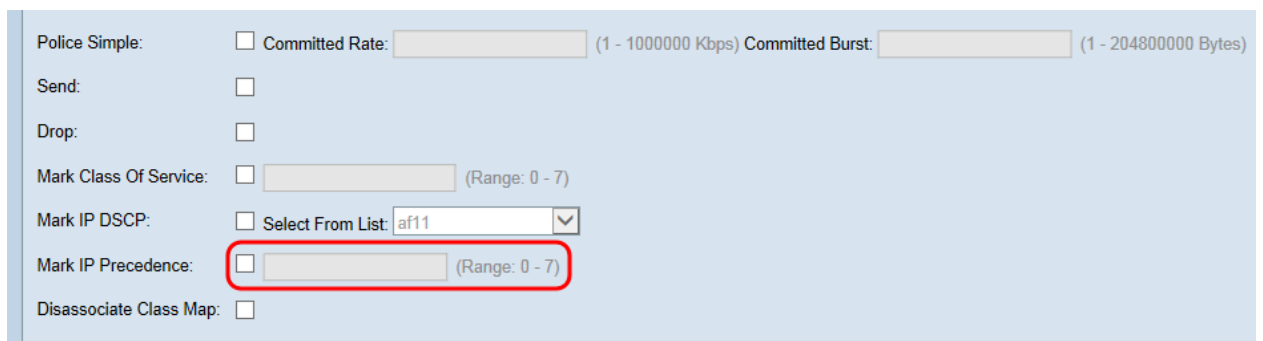
Step 10. Check the *Mark IP DSCP* checkbox to mark/overwrite all packets in the associated traffic stream with the selected DSCP value. Select a DSCP value from the *Select From List* drop-down list.



The screenshot shows a configuration interface with several options. The 'Mark IP DSCP' checkbox is checked and highlighted with a red rectangle. The 'Select From List' dropdown menu is open, showing 'af11' as the selected value. Other options include 'Police Simple', 'Send', 'Drop', 'Mark Class Of Service', 'Mark IP Precedence', and 'Disassociate Class Map', all of which are unchecked.

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

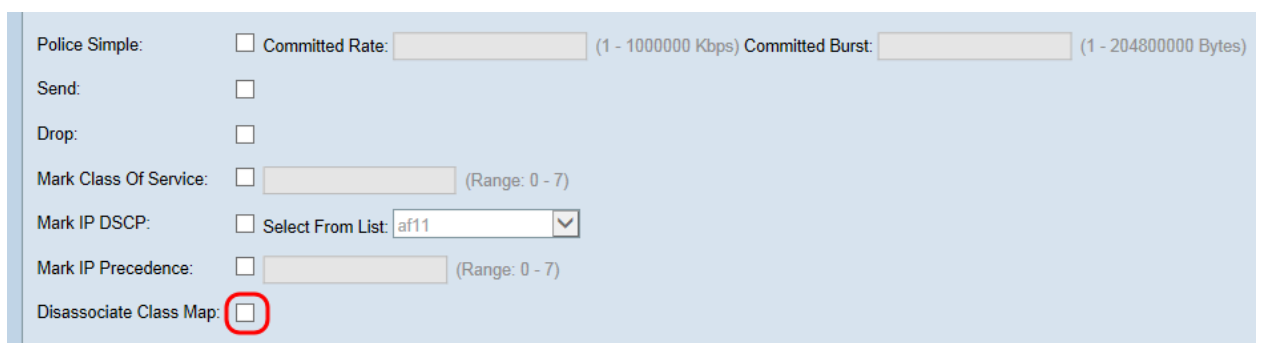
Step 11. Check the *Mark IP Precedence* checkbox to mark/overwrite all packets in the associated traffic stream with the specified IP precedence value. Enter an IP precedence value from 0-7, with 0 being the lowest.



The screenshot shows the same configuration interface as Step 10. The 'Mark IP Precedence' checkbox is checked and highlighted with a red rectangle. The 'Select From List' dropdown menu is still open, showing 'af11' as the selected value. Other options are the same as in Step 10.

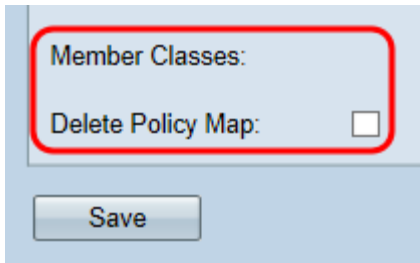
Note: Refer to [DSCP and Precedence Values](#) for further details on IP Precedence.

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).



The screenshot shows the same configuration interface as Step 11. The 'Disassociate Class Map' checkbox is checked and highlighted with a red rectangle. The 'Mark IP Precedence' checkbox is still checked. The 'Select From List' dropdown menu is still open, showing 'af11' as the selected value. Other options are the same as in Step 11.

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.

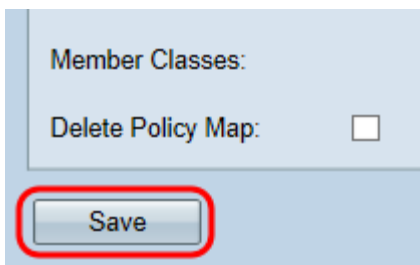


Member Classes:

Delete Policy Map: ☐

Save

Step 14. Click **Save**.



Member Classes:

Delete Policy Map: ☐

Save

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