

Configure QoS Policy Map on the WAP125

Objective

A Policy Map executes the action when a condition stated in the Class Map is matched. Class Maps contain conditions that traffic need to match in order to be forwarded or dropped. There can be many Class Maps in a Policy Map where either one Class Map can be matched, or all Class Maps should be matched for the action specified in the Policy Map to take place. A Class Map and a Policy Map are created to complete the Quality of Service (QoS) configuration on an access point.

Note: To learn how to configure an IPv4 Class Map, click [here](#). For IPv6 Class Map configuration instructions, click [here](#) or configure a MAC Class Map by clicking [here](#).

This article aims to show you how to configure a QoS Policy Map on a WAP125 access point.

Applicable Devices

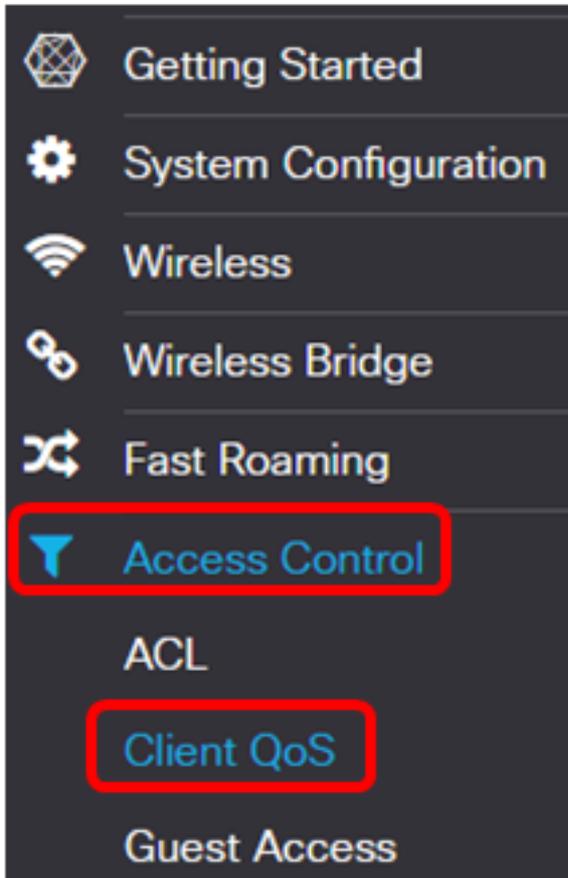
- WAP125

Software Version

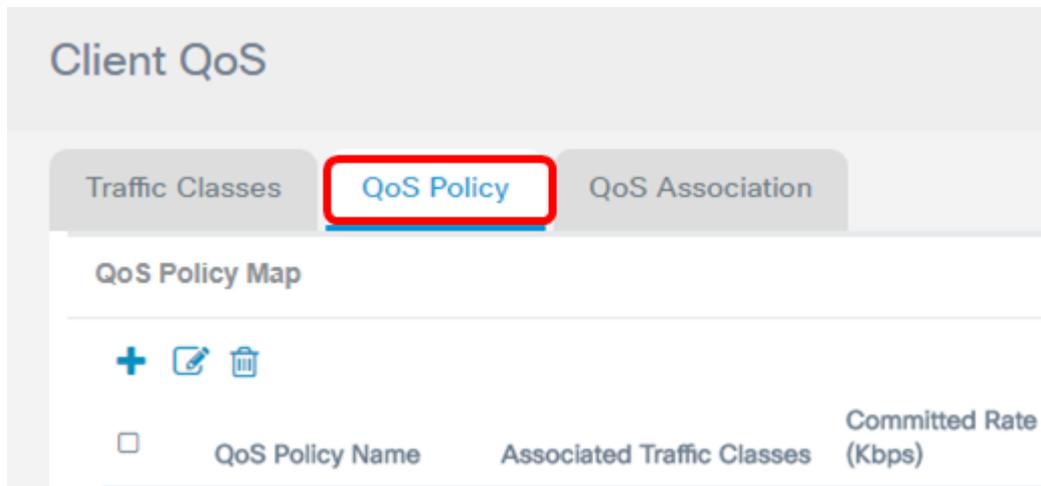
- 1.0.0.4

Configure a QoS Policy Map

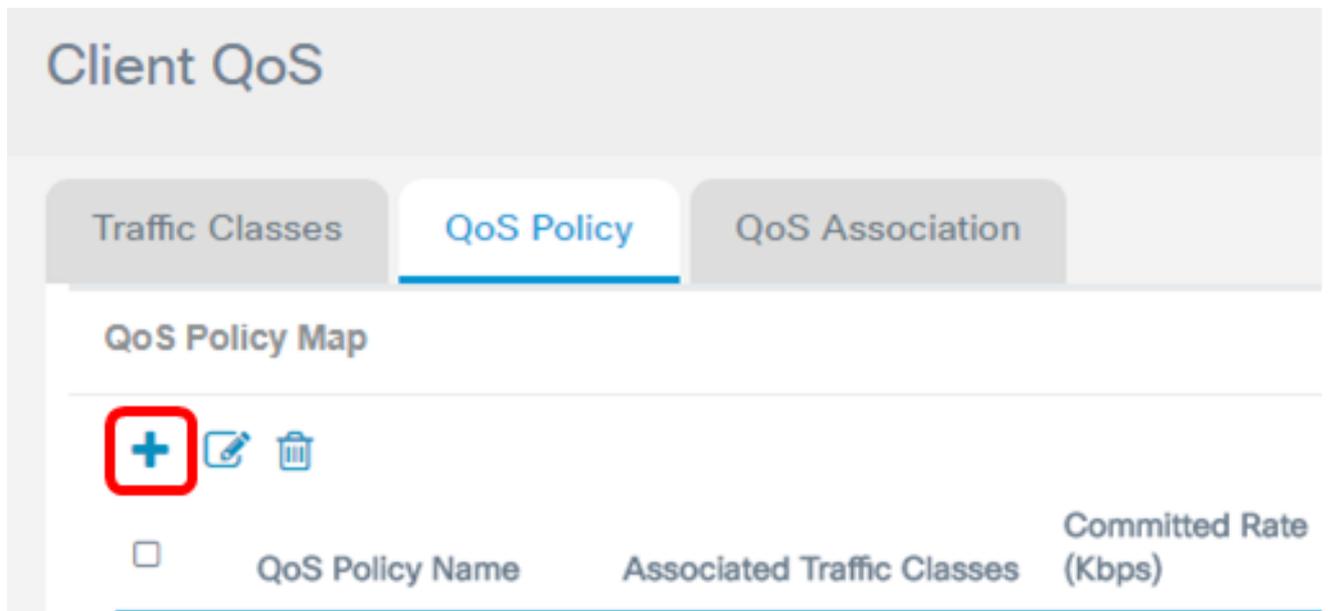
Step 1. Log in to the web-based utility of the WAP125 and choose **Access Control > Client QoS**.



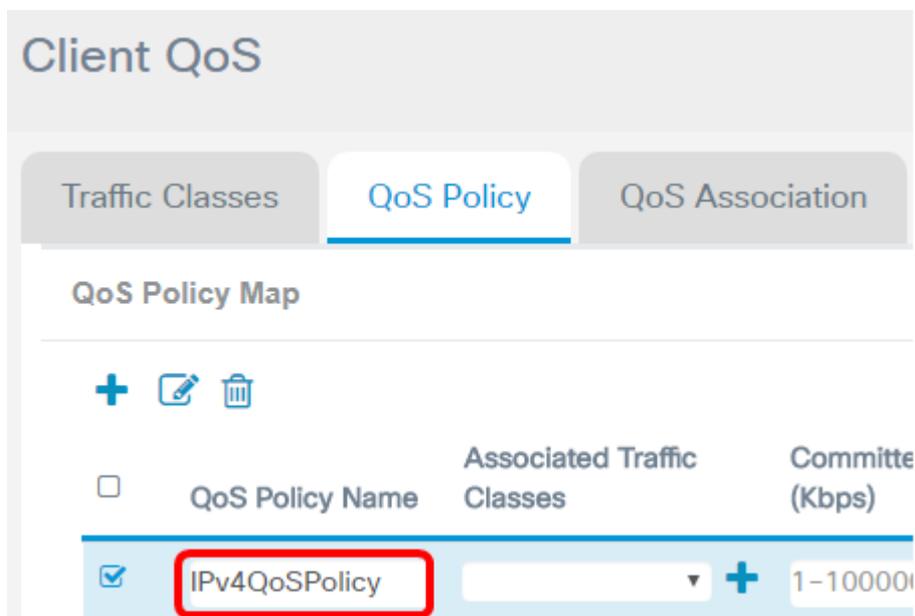
Step 2. Click the **QoS Policy** tab.



Step 3. Click the **+** button to add a QoS policy.



Step 4. Enter a name for the policy in the *QoS Policy Name* field.



Note: In this example, IPv4QoSPolicy is entered.

Step 5. Choose a class map to be associated to the policy from the Associated Traffic Classes drop-down list.



Note: In this example, IPv4ClassMap is chosen.

Step 6. Enter the committed rate in the *Committed Rate* field. This is the rate in Kbps to which traffic must conform to. It is the data rate that is guaranteed all the time for the user,

regardless of the number of users present in the network. The range is from 1 to 1000000 Kbps.

Committed Rate (Kbps)	Committed Burst (Kbps)
180000	20480000

Note: In this example, 180000 is entered.

Step 7. Enter the committed burst size in bytes in the Committed Burst field. This is the maximum amount of data that can be transferred in the network. It can be from 1 to 20480000 Kbps.

Committed Rate (Kbps)	Committed Burst (Kbps)
180000	20480000

Note: In this example, 20480000 is entered.

Step 8. (Optional) Click the **+** button under Associated Traffic Classes to add class maps to the policy.

Associated Traffic
Classes

IPv4ClassMap **+**

Step 9. Choose an action from the Action drop-down list. The options are:

- Send — This option means that packets filtered by the associated class map are forwarded.
- Drop — This option means that packets filtered by the associated class map are dropped.

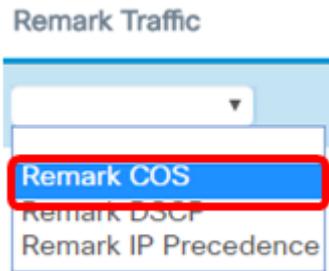
Action

Send
Send
Drop

Step 10. (Optional) choose the desired DSCP value from the Remark Traffic drop-down list. This marks all packets for the associated traffic with the chosen DSCP value. The options are:

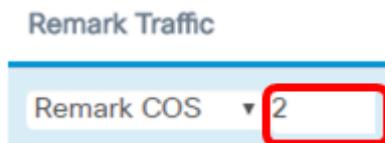
- Remark COS — This option means that network traffic can be partitioned into multiple priority levels or Classes of Service. If this option is chosen, proceed to [Step 11](#).
- Remark DSCP — This option specifies a particular per-hop behavior that is applied to a packet. If this option is chosen, proceed to [Step 12](#).
- Remark IP Precedence — This option marks all packets for the associated traffic with

the specified IP precedence value. The IP precedence value can be from 0 to 7. If this option is chosen, proceed to [Step 13](#).



Note: In this example, Remark COS is chosen.

[Step 11](#). Enter a QoS value in the Remark COS field. CoS values range from 0 to 7, 0 being the lowest priority, and 7 as the highest priority.



[Step 12](#). Choose a QoS Value from the drop-down list. The options are:

- af11 — This option provides an IP Precedence value of 1, and a drop probability of 1. This option is commonly used for VoIP and Video packets since it has a low probability of getting dropped. The decimal value for AF11 is 10.
- af12 — This option provides an IP Precedence value of 1, and a drop probability of 2. This option is commonly used for non-time-sensitive packets since it has a medium probability of getting dropped. The decimal value for AF12 is 12.
- af13 — This option provides an IP Precedence value of 1, and a drop probability of 3. This option is commonly used for non-time-sensitive packets since it has a high probability of getting dropped. The decimal value for AF13 is 14.
- af21 — This option provides an IP Precedence value of 2, and a drop probability of 1. This option is commonly used for time-sensitive packets since it has a low probability of getting dropped. The decimal value for AF21 is 18.
- af22 — This option provides an IP Precedence value of 2, and a drop probability of 2. This option is commonly used for non-time-sensitive packets since it has a medium probability of getting dropped. The decimal value for AF22 is 20.
- af23 — This option provides an IP Precedence value of 2, and a drop probability of 3. This option is commonly used for non-time-sensitive packets since it has a high probability of getting dropped. The decimal value for AF23 is 22.
- af31 — This option provides an IP Precedence value of 3, and a drop probability of 1. This option is commonly used for time-sensitive packets since it has a low probability of getting dropped. The decimal value for AF31 is 26.
- af32 — This option provides an IP Precedence value of 3, and a drop probability of 2. This option is commonly used for non-time-sensitive packets since it has a medium probability of getting dropped. The decimal value for AF32 is 28.
- af33 — This option provides an IP Precedence value of 3, and a drop probability of 3. This option is commonly used for non-time-sensitive packets since it has a high probability of getting dropped. The decimal value for AF31 is 26.

- af41 — This option provides an IP Precedence value of 4, and a drop probability of 1. This option is commonly used for time-sensitive packets since it has a low probability of getting dropped. The decimal value for AF41 is 34.
- af42 — This option provides an IP Precedence value of 4, and a drop probability of 2. This option is commonly used for non-time-sensitive packets since it has a medium probability of getting dropped. The decimal value for AF42 is 36.
- af43 — This option provides an IP Precedence value of 4, and a drop probability of 3. This option is commonly used for non-time-sensitive packets since it has a high probability of getting dropped. The decimal value for AF43 is 38.
- cs0—This option has a decimal value of 0, and a default Equivalent IP Precedence Value.
- cs1 — This option has a decimal value of 8, and an Equivalent IP Precedence value of 1.
- cs2 —This option has a decimal value of 16, and an Equivalent IP Precedence Value of 2.
- cs3 —This option has a decimal value of 24, and an Equivalent IP Precedence Value of 3.
- cs4 —This option has a decimal value of 32, and an Equivalent IP Precedence Value of 4.
- cs5 —This option has a decimal value of 40, and an Equivalent IP Precedence Value of 5.
- cs6 —This option has a decimal value of 48, and an Equivalent IP Precedence Value of 6.
- cs7 —This option has a decimal value of 56, and an Equivalent IP Precedence Value of 7.

Remark Traffic

Remark DSCP ▾ af11

af11

af12

af13

af21

af22

af23

af31

af32

af33

af41

af42

af43

cs0

cs1

cs2

cs3

cs4

cs5

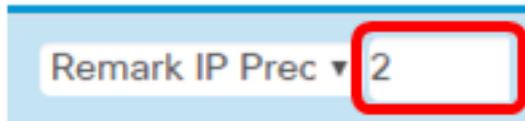
cs6

cs7

Note: In this example, af11 is chosen.

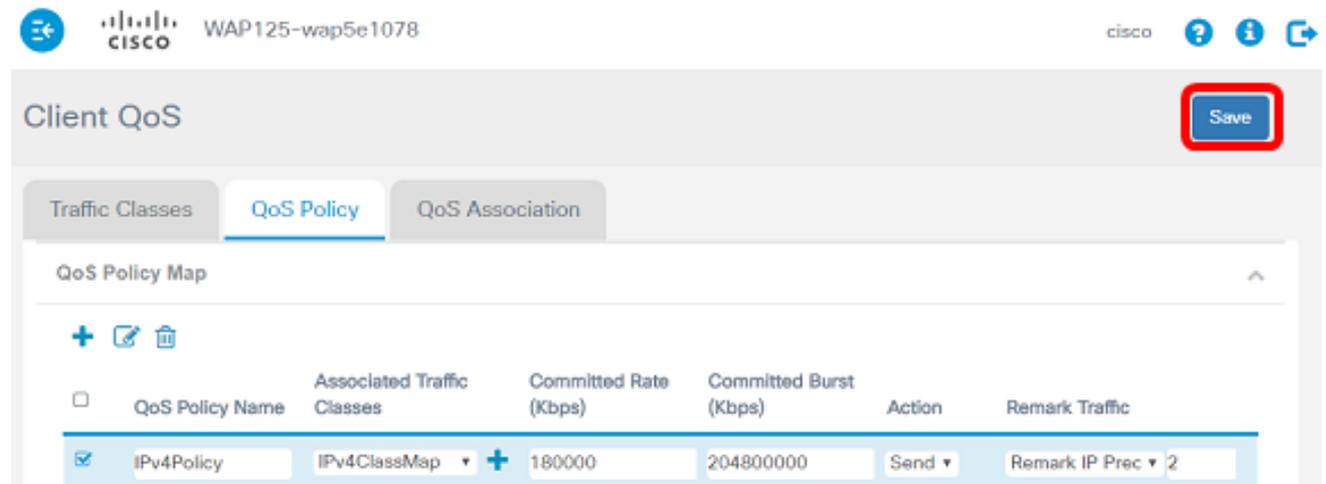
Step 13. Enter a QoS value in the Remark IP Precedence field. CoS values range from 0 to 7, 0 being the lowest priority, and 7 as the highest priority.

Remark Traffic



A screenshot of a configuration field labeled "Remark IP Prec" with a dropdown arrow and the value "2" entered. The field is highlighted with a red rectangular border.

Step 14. Click **Save**.



The screenshot shows the Cisco Client QoS configuration page for WAP125-wap5e1078. The "Client QoS" section is active, and the "Save" button is highlighted with a red border. The "QoS Policy" tab is selected, showing a table of QoS Policy Maps.

QoS Policy Name	Associated Traffic Classes	Committed Rate (Kbps)	Committed Burst (Kbps)	Action	Remark Traffic
<input checked="" type="checkbox"/> IPv4Policy	IPv4ClassMap +	180000	204800000	Send ▾	Remark IP Prec ▾ 2

You should now have configured a QoS policy map on the WAP125 access point.