Wireless Auto-QoS

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Auto QoS information

Wireless Auto QoS automates deployment of wireless QoS features. It has a set of predefined profiles which can be further modified by the customer to prioritize different traffic flows. Auto-QoS matches traffic and assigns each matched packet to qos-groups. This allows the output policy map to put specific qos-groups into specific queues, including into the priority queue.

Autoqos policy configuration

Table 1: Autoqos policy configuration

Mode	Client Ingress	Client Egress	BSSID Ingress	BSSID Egress	Port Ingress	Port Egress	Radio
Voice	N/A	N/A	P3	P4	N/A	P7	ACM on
Guest	N/A	N/A	P5	P6	N/A	P7	
Fastlane	N/A	N/A	N/A	N/A	N/A	P7	edca-parameters fastlane
Enterprise-avc	N/A	N/A	P1	P2	N/A	P7	

P1	AutoQos-4.0-wlan-ET-SSID-Input-AVC-Policy
P2	AutoQos-4.0-wlan-ET-SSID-Output-Policy
P3	platinum-up
P4	platinum
P5	AutoQos-4.0-wlan-Dot1x-Output-Policy
P6	AutoQos-4.0-wlan-GT-SSID-Output-Policy
P7	AutoQos-4.0-wlan-Port-Output-Policy

Configure wireless auto-QoS on profile policy (CLI)

You can enable AutoQoS on a profile policy to automate deployment of wireless QoS features.

You can enable AutoQoS on a profile policy.

Procedure

Step 1 Enable privileged EXEC mode.

Example:

```
Device# enable
```

Enter your password if prompted.

Step 2 Configure AutoQoS wireless policy.

Example:

```
Device# wireless autoqos policy-profile test-profile mode voice
```

- **enterprise-avc**—Enables AutoQoS Wireless Enterprise AVC Policy.
- **fastlane**—Enable AutoQoS Wireless Fastlane Policy.
- **guest**—Enable AutoQoS Wireless Guest Policy.
- **voice**—Enable AutoQoS Wireless Voice Policy.

Note
AutoQoS MIB attribute does not support full functionality with service policy. Service policy must be configured manually. Currently, there is only support for AutoQoS mode.

What to do next

Note After enabling AutoQoS, we recommend that you wait for a few seconds for the policy to install and then try and modify the AutoQoS policy maps if required; or retry if the modification is rejected.

Disable wireless autoqos

Disable wireless AutoQoS functionality to manually control QoS parameters or troubleshoot QoS-related issues.

Wireless AutoQoS automatically configures QoS settings for optimal wireless performance. You may need to disable it when implementing custom QoS policies or when troubleshooting network issues.

Procedure

Step 1 Enable privileged EXEC mode.

Example:

```
Device> enable
```

Enter your password if prompted.

Step 2 Shut down the policy profile.

Example:

```
Device# shutdown
```

Shuts down the policy profile.

Step 3 Globally disable wireless AutoQoS.

Example:

```
Device# wireless autoqos disable
```

Globally disables wireless AutoQoS.

Step 4 Enable the wireless policy profile.

Example:

```
Device# no shutdown
```

Enables the wireless policy profile.

Note
Disabling Auto QoS does not reset global radio configurations like CAC and EDCA parameters.

Wireless AutoQoS is now disabled globally, allowing for manual QoS configuration or troubleshooting without automatic QoS interference.

Rollback auto-QoS configuration (GUI)

Before you begin

Follow these steps to rollback AutoQoS configuration using the GUI:

Procedure

Step 1 Choose **Configuration** > **Services** > **QoS**.

Step 2 Click **Disable AutoQoS**.

Step 3 Click **Yes** to confirm.

Rollback AutoQoS configuration (CLI)

Before you begin

Note AutoQoS MIB attribute does not support the full functionality with service policy. Currently, there is only support for AutoQoS mode. Service policy must be configured manually.

Follow these steps to rollback AutoQoS configuration:

Procedure

Step 1 Enable privileged EXEC mode.

Example:

```
Device# enable
```

Enter your password if prompted.

Step 2 Reset AutoQoS configuration.

Example:

```
Device# clear platform software autoqos config template guest
```

- enterprise-avc—Resets AutoQoS Enterprise AVC Policy Template.
- guest—Resets AutoQoS Guest Policy Template.

Clear wireless autoqos policy profile (GUI)

Before you begin

Follow these steps to clear wireless AutoQoS policy profile using the GUI

Procedure

Step 1 Choose **Configuration** > **Tags & Profiles** > **Policy**.

Step 2 Click on the **Policy Profile Name**.

Step 3 Go to **QOS and AVC** tab.

Step 4 From the **Auto Qos** drop-down list, choose **None**.

Step 5 Click **Update & Apply to Device**.

Clear wireless autoqos policy profile (CLI)

Clear the AutoQoS configuration from a wireless policy profile to reset or remove QoS settings.

Use this procedure when you need to remove AutoQoS settings from a wireless policy profile, typically during reconfiguration or troubleshooting scenarios.

Procedure

Step 1 Enable privileged EXEC mode.

Example:

```
Device# enable
```

Enter your password if prompted.

Step 2 Shut down the policy profile.

Example:

```
Device# shutdown
```

Step 3 Clear the configured AutoQoS wireless policy.

Example:

```
Device# wireless autoqos policy-profile policy-name mode clear
```

Example:

```
Device# wireless autoqos policy-profile test-profile mode clear
```

Step 4 Enable the wireless policy profile.

Example:

```
Device# no shutdown
```

The AutoQoS configuration is cleared from the specified wireless policy profile, and the profile is re-enabled.

View Auto-QoS on policy profile (CLI)

Before you begin

AutoQoS is supported on the local mode and flex mode. AutoQoS configures a set of policies and radio configurations depending on the template. It is possible to override the service-policy that is configured by AutoQoS. The latest configuration takes effect, with AAA override policy being of highest priority.

Follow these steps to view AutoQoS on policy profile:

Procedure

Step 1 **enable**

Example:

```
Device enable
```

Enables privileged EXEC mode. Enter your password if prompted.

Step 2 **show wireless profile policy detailed** *policy-profile-name*

Example:

```
Device# show wireless profile policy detailed testqos
```

Shows policy-profile detailed parameters.

Note
When the AutoQoS mode is configured to voice within the policy profile, any modifications to the global ACM settings require a shutdown and subsequent no shutdown operation on the policy profile to activate the changes. Without performing this shut and no shut cycle, the updated ACM configurations are not applied to the beacon frames. This causes the beacon to continue broadcasting the old ACM values.

This process ensures that the revised ACM settings are correctly propagated and reflected throughout the wireless environment, thereby maintaining accurate call admission control enforcement.