



Wireless Auto-QoS

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Information About Auto QoS

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-GT-SSID-Input-Policy |

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|----|--|
| P6 | AutoQos-4.0-wlan-GT-SSID-Output-Policy |
| P7 | AutoQos-4.0-wlan-Port-Output-Policy |

How to Configure Wireless AutoQoS

Configuring Wireless AutoQoS on Profile Policy

You can enable AutoQoS on a profile policy.

Procedure

| | Command or Action | Purpose |
|---------------|--|--|
| Step 1 | enable Example: Device# <code>enable</code> | Enables privileged EXEC mode. Enter your password if prompted. |
| Step 2 | wireless autoqos policy-profile <i>policy-name</i> mode { enterprise-avc fastlane guest voice} Example: Device# <code>wireless autoqos policy-profile test-profile mode voice</code> | Configures AutoQoS wireless policy. <ul style="list-style-type: none"> • 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. <p>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.</p> |

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.

Disabling Wireless AutoQoS

To globally disable Wireless AutoQoS:

Procedure

| | Command or Action | Purpose |
|---------------|---|---|
| Step 1 | enable Example: Device# <code>enable</code> | Enables privileged EXEC mode. Enter your password if prompted. |
| Step 2 | shutdown Example: Device# <code>shutdown</code> | Shuts down the policy profile. |
| Step 3 | wireless autoqos disable Example: Device# <code>wireless autoqos disable</code> | Globally disables wireless AutoQoS. |
| Step 4 | [no] shutdown Example: Device# <code>no shutdown</code> | Enables the wireless policy profile. Note Disabling Auto QoS does not reset global radio configurations like CAC and EDCA parameters. |

Rollback AutoQoS Configuration (GUI)

Procedure

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- Step 1** Choose **Configuration > Services > QoS**.
 - Step 2** Click **Disable AutoQoS**.
 - Step 3** Click **Yes** to confirm.
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Rollback AutoQoS Configuration

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.

Procedure

| | Command or Action | Purpose |
|---------------|--|--|
| Step 1 | enable Example: Device#enable | Enables privileged EXEC mode. Enter your password if prompted. |
| Step 2 | clear platform software autoqos config template { enterprise_avc guest} Example: Device# clear platform software autoqos config template guest | Resets AutoQoS configuration. <ul style="list-style-type: none"> • enterprise-avc—Resets AutoQoS Enterprise AVC Policy Template. • guest—Resets AutoQoS Guest Policy Template. |

Clearing Wireless AutoQoS Policy Profile (GUI)

Procedure

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- 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**.
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Clearing Wireless AutoQoS Policy Profile

Procedure

| | Command or Action | Purpose |
|---------------|---|--|
| Step 1 | enable Example: Device# enable | Enables privileged EXEC mode. Enter your password if prompted. |
| Step 2 | shutdown Example: Device# shutdown | Shuts down the policy profile. |
| Step 3 | wireless autoqos policy-profile <i>policy-name</i> mode clear Example: | Clears the configured AutoQoS wireless policy. |

| | Command or Action | Purpose |
|---------------|--|--------------------------------------|
| | Device# <code>wireless autoqos policy-profile test-profile mode clear</code> | |
| Step 4 | [no] shutdown Example: <code>no shutdown</code> | Enables the wireless policy profile. |

Viewing AutoQoS on policy profile

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.

Procedure

| | Command or Action | Purpose |
|---------------|---|--|
| Step 1 | enable Example: <code>Device#enable</code> | Enables privileged EXEC mode. Enter your password if prompted. |
| Step 2 | show wireless profile policy detailed <i>policy-profile-name</i> Example: <code>Device# show wireless profile policy detailed testqos</code> | Shows policy-profile detailed parameters. |

