# EDCA Parameters



# Enhanced Distributed Channel Access Parameters

Enhanced Distributed Channel Access (EDCA) parameters are designed to provide preferential wireless channel access for voice, video, and other quality of service (QoS) traffic.

This section contains the following subsections:

# Configuring EDCA Parameters (GUI)

**Procedure**

**Step 1** Choose **Configuration > Radio Configurations > Parameters**. Using this page, you can configure global parameters for 802.11a/n/ac (5 GHz) and 802.11b/g/n (2.4 GHz) radios.

**Note** You cannot configure or modify parameters, if the radio network is enabled. Disable the network status on the Configuration > Radio Configurations > Network page before you proceed.

**Step 2** In the **EDCA Parameters** section, choose an EDCA profile from the **EDCA Profile** drop-down list. Enhanced Distributed Channel Access (EDCA) parameters are designed to provide preferential wireless channel access for voice, video, and other quality-of-service (QoS) traffic.

**Step 3** For 802.11a/n/ac (5 GHZ) radios, in the (DFS 802.11h) section, enter the local power constraint. You cannot configure power constraint if the DTPC Support check box on the **Configure > Radio Configurations > Network** page is checked. The valid range is between 0 dBm and 30 dBm.

**Step 4** Check the **Channel Switch Announcement Mode** check box, if you want the AP to announce when it is switching to a new channel and the new channel number. The default value is disabled.

**Step 5** Check the **Smart DFS** check box to enable Dynamic Frequency Selection (DFS) and avoid interference with the radar signals.

**Step 6** Click **Apply**.

# Configuring EDCA Parameters (CLI)

**Procedure**

| | Command or Action | Purpose |
|---|---|---|
| **Step 1** | **configure terminal**<br>**Example:**<br>`Device# configure terminal` | Enters global configuration mode. |
| **Step 2** | **ap dot11 {5ghz \| 24ghz } shutdown**<br>**Example:**<br>`Device(config)# ap dot11 5ghz shutdown` | Disables the radio network. |
| **Step 3** | **ap dot11 {5ghz \| 24ghz} edca-parameters {custom-voice \| fastlane \| optimized-video-voice \| optimized-voice \| svp-voice \| wmm-default}**<br>**Example:**<br>`Device(config)# ap dot11 5ghz edca-parameters optimized-voice` | Enables specific EDCA parameters for the 802.11a or 802.11b/g network.<br>**Note** The **custom-voice** option is not supported for Cisco Catalyst 9800 Series Wireless Controller.<br>• **custom-voice**: Enables custom voice parameters for the 802.11a or 802.11b/g network.<br>• **fastlane**: Enables the fastlane parameters for the 802.11a or 802.11b/g network.<br>• **optimized-video-voice**: Enables EDCA voice-optimized and video-optimized parameters for the 802.11a or 802.11b/g network. Choose this option when both voice and video services are deployed on your network.<br>• **optimized-voice**: Enables non-SpectraLink voice-optimized profile parameters for the 802.11a or 802.11b/g network. Choose this option when voice services other than SpectraLink are deployed on your network.<br>• **svp-voice**: Enables SpectraLink voice-priority parameters for the 802.11a or 802.11b/g network. Choose this option if SpectraLink phones are deployed on your network to improve the quality of calls. |

| | Command or Action | Purpose |
|---|---|---|
| | | • **wmm-default**: Enables the Wi-Fi Multimedia (WMM) default parameters for the 802.11a or 802.11b/g network. This is the default option. Choose this option when voice or video services are not deployed on your network. |
| **Step 4** | **no ap dot11 {5ghz \| 24ghz} shutdown**<br>**Example:**<br>`Device(config)# no ap dot11 5ghz shutdown` | Re-enables the radio network. |
| **Step 5** | **end**<br>**Example:**<br>`Device(config)# end` | Returns to privileged EXEC mode. |
| **Step 6** | **show ap dot11 {5ghz \| 24ghz} network**<br>**Example:**<br>`Device# show ap dot11 5ghz network` | Displays the current status of MAC optimization for voice. |