

RUCKUS One Online Help (index.html)

Search



Customizing the Radio Settings of an AP

From the RUCKUS One web interface, you can customize the radio settings of an AP.

Note:

- While there are similarities in settings across the radio bands, each radio band must be configured separately.
- On tri-band APs, you can configure both 5 GHz and 6 GHz bands.

Complete the following steps to customize the radio settings of an AP.

1. On the navigation bar, click **Wi-Fi** > (and then) **Access Points** > (and then) **AP List**.
The **AP List** page is displayed.
2. Click the name of the AP for which you want to customize the AP radio settings, then on the **Overview** page, click **Configure**. Alternatively, click the checkbox for the specific AP name, then click **Edit**.
The AP configuration page is displayed. By default, the **General** tab is displayed.
3. Select the **Radio** tab.
By default, the **Wi-Fi Radio Settings** page is displayed. The default setting is to use the radio settings of the venue (the fields are all inactive and grayed out). To customize any of the radio settings, click the **Customize** option; the fields become active, allowing you to modify the settings.

Wi-Fi Radio Settings

Wi-Fi / Access Points / AP List /

R670

General **Radio** Networking Network Control Advanced

Wi-Fi Radio Settings

Wi-Fi Radio
 Client Admission Control

Band Management (as venue: R770)

Tri-band [Change](#)

Operating bands: 2.4 GHz, 5 GHz, and 6 GHz

☒ 2.4 GHz
 ☐ 5 GHz
 ☐ 6 GHz

Currently 2.4 GHz settings as the venue (R770) [Customize](#)

Enable 2.4 GHz band: ☒ On

Channel selection method:
ChannelFly

Channel Change Frequency:

1% 100%

Bandwidth:

[Apply](#) [Cancel](#)

4. (Optional) For **Band Management**, the default setting is to use the band operation mode of the venue (the field is inactive and grayed out). To customize the band operation mode at the AP level, click the **Change** option; the field becomes active, allowing you to modify the setting. For more information, refer to *Switchable Radio Frequency Support (GUID-3E0112D7-A87A-49BE-874A-75EB6A5B3481.html)*.

Note: Only AP models that support band management can be configured (such as R670, T670, and R760 APs).

5. Configure the following settings for both the 2.4 GHz and 5 GHz radios:
- Click **Customize** to enable the **2.4 GHz** and **5 GHz** band options. This toggle switch is set to **ON** by default. You may disable, or subsequently re-enable, this option by clicking the toggle switch.
 - Channel Selection Method:** Select either **Background Scanning** or **Channel Fly** or **Manual Channel Selection**.
 - Channel Change Frequency:** This option is displayed only if you select the **Channel Selection Method** as **Channel Fly**. Adjust the frequency between 1 and 100. By default, 33 is selected.

- **Bandwidth:** Select **Auto**, **20 MHz**, or **40 MHz** channel width for the 2.4 GHz radio, or **Auto**, **20**, **40**, **80**, or **160 MHz** channel width for the 5 GHz radio from the drop-down list.
- **Transmit Power Adjustment:** Select the transmit power adjustments from the drop-down list. The default is **Full**.
- **Channel Selection:** A blue icon above the channel number indicates that the channel is enabled for the radio. If there are channels that you do not want the radio to use, disable them by clicking their respective icons. When a channel is disabled, its blue icon changes to gray.

Note: For the 5 GHz radio, you must configure a different set of channels for indoor APs and outdoor APs.

6. Complete the following fields to configure the **6 GHz** band.

a. Select the **6 GHz** tab and click **Customize**.

Customizing 6 GHz Radio Settings

The screenshot shows the 'Wi-Fi Radio Settings' page for the device 'AFC_AUTO_R770_2'. The 'Radio' tab is selected. Under 'Wi-Fi Radio', the '6 GHz' band is selected and highlighted with a red box. A 'Customize' button is also highlighted with a red box. The settings for the 6 GHz band are as follows:

- Enable 6 GHz band: On
- Enable AFC: On (with a help icon)
- Channel selection method: ChannelFly
- Channel Change Frequency: 1% to 100% slider (set to 25%)
- Bandwidth: Auto
- Transmit Power adjustment: Full

At the bottom, there are 'Apply' and 'Cancel' buttons.

- Use the toggle button to enable or disable **6 GHz band**.
- Use the toggle button to enable or disable the **AFC** feature for any indoor APs. In the case of outdoor APs, the **Enable AFC** toggle does not appear. For more information on how to configure the AFC feature, refer to *Radio Settings (GUID-C1324048-5F2A-436C-A8BE-9B94BCB5CF14.html)*

Note: Before enabling the AFC feature, ensure that you have configured the venue height in the **Venue settings** page. Any attempt to enable the AFC feature without configuring the venue height results in failure.

Enabling the AFC Feature

Wi-Fi / Access Points / AP List /

AFC_AUTO_R560

General **Radio** Networking Network Control Advanced

Wi-Fi Radio Settings

Wi-Fi Radio

Client Admission Control

2.4 GHz 5 GHz **6 GHz**

Custom 6 GHz settings

Enable 6 GHz band: ☒

Enable AFC: ☒

Please ensure that you are familiar with the requirements for AFC Geo-Location. [How to configure?](#)

Channel selection method:

ChannelFly

- **Channel selection method:** By default, **Channel Fly** is selected. Select either **Channel Fly** or **Manual Channel Selection**.
- **Channel Change Frequency:** This option is displayed only if you select the **Channel Selection Method** as **Channel Fly**. Adjust the frequency between 1-100. By default, 33 is selected.
- **Bandwidth:** Select **Auto**, **20 MHz**, **40 MHz**, **80 MHz**, **160 MHz**, or **320 MHz**.
- **Transmit Power Adjustment:** Select the transmit power adjustments from the drop-down list. The default is **Full**.
- **BSS Min Rate:** Select **HE MCS 0**, **HE MCS 1**, **HE MCS 2**, or **HE MCS 3** from the drop-down list.
- **Mgmt Tx Rate:** Select **6 Mbps**, **9 Mbps**, **12 Mbps**, **18 Mbps**, or **24 Mbps** from the drop-down list.
- **Channel Selection:** A blue icon above the channel number indicates that the channel is enabled for the radio. If there are channels that you do not want the radio to use, disable them by clicking their respective icons. When a channel is disabled, its blue icon changes to gray.

7. Click **Apply**.

800-73730-001 Rev E 29 May 2025

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