Basic Wireless Settings on the RV220W

Objectives

All wireless routers operate on a 2.4MHz frequency. RV220W has the capability to operate at 5MHz in addition to 2.4MHz frequency. Different wireless network modes allow different wireless standards to be set on the device. Depending on the network mode the user chooses, the channel bandwidth and channels will be restricted. The descriptions of the different network modes are included within the article. Auto network mode selection is the best option for most devices. Also, the transmit power field value will tell the router the strength of the signal to transmit.

This document explains how to edit the basic wireless settings on the RV220W.

Applicable Devices

• RV220W

Wireless Settings with Wireless Network Modes: B/G-Mixed or G Only (2.4MHz), A Only (5MHz)

Step 1. Choose Wireless > Basic Settings using the Management GUI.

Step 2. Click the Enable radio button.

Step 3. Choose 2.4GHz or 5GHz from the Operating Frequency drop-down menu.
Step 4. Choose an option from the Wireless Network Mode drop-down menu.

Frequency of 2.4GHz:
• B/G-Mixed — choose if devices in the network support 802.11b and 802.11g
• G Only — choose if all devices in wireless network support 802.11g

Frequency of 5GHz:
• A Only — choose if all devices in wireless network support 802.11a
Step 5. Choose a channel from the Channel drop-down menu.

**Note**: The channel bandwidth only has one option: 20MHz.

Step 6. Enter a value in the Default Transmit Power field.

- The Default Transmit Power field value will tell the router the strength of the signal to transmit.

Step 7. Click **Save**

**Wireless Settings with Wireless Network Modes**: G/N-Mixed or N Only (2.4MHz), A/N-Mixed or N Only (5MHz)
Step 1. Choose **Wireless > Basic Settings** using the Management GUI.

Step 2. Click the **Enable** radio button.
Step 3. Choose 2.4GHz or 5GHz from the Operating Frequency drop-down menu.

Step 4. Choose an option from the Wireless Network Mode drop-down menu.

- **G/N-Mixed** — choose if all devices in wireless network support 802.11g and 802.11n
- **N only** — choose if all devices in wireless network support 802.11n
Step 5. Choose a bandwidth from the Channel Bandwidth drop-down menu.

- 20MHz — the user will not be able to choose a control side band or a different channel
- Auto — represents 20/40 MHz; with this setting the user will be able to choose a control side band
Step 6. If Auto was chosen for the previous step, choose an option from the Control Side Band drop-down menu.

- **Auto** — this option allows the device to select the best channel to use based on noise levels for available channels
- **Lower** — signal components below the carrier frequency (Lower Side Bound: LSB)
- **Upper** — signal components above the carrier frequency (Upper Side Bound: USB)

Step 7. If 20MHz was selected for bandwidth or if the control side is not auto, choose a channel from the Channel drop-down menu.

Step 8. Enter a value in the Default Transmit Power field.

Step 9. Click **Save**