

## How to Configure Wi-Fi Client Connection

<https://campus.barracuda.com/doc/17248/>

Barracuda CloudGen F-Series Firewalls with built-in Wi-Fi can configure the Wi-Fi to act as a Wi-Fi client or Access Point. Configuring the Wi-Fi card as a client allows you to use Wi-Fi networks as a WAN connection.

### Before You Begin

- Go to **CONFIGURATION > Configuration Tree > Box > Network** and verify that all configured direct attached routes for the Wi-Fi interfaces are removed or disabled in the routing table.
- When configuring multiple Wi-Fi networks, verify that every Wi-Fi service has its own IP address entered in the **Service Properties** configuration. This IP address must also be configured on the Network page.

### Step 1. Add Wireless Networks

Add the configuration of the wireless network you want to connect to. You can configure more than one wireless network.

1. Go to **CONFIGURATION > Configuration Tree > Box > Network**.
2. Click **Lock**.
3. In the left menu, click **Wi-Fi**.
4. Set **Wi-Fi Enabled** to **yes**.
5. From the **Location** drop-down list, select your country.
6. From the **Wi-Fi Operation Mode** drop-down list, select **Wireless Client**.
7. Set **Standby Mode** to **no**.
8. Select the **Network Selection Mode**:
  - **Explicit Network Selection** – Use the **Selected Network** configured below.
  - **Opportunistic Network Selection** – Select the wireless network configured in the **Wireless Networks - Client** list with the best signal strength.
9. Click **+** to add a wireless network to the **Wireless Networks Client** list.
10. Enter a **Name**.
11. Click **OK**. The **Wireless Networks** window opens.
12. Enter the **Network SSID**.
13. Select the **IP Assignment** mode:
  - **Via DHCP** – Use DHCP to receive an IP address.
  - **Via explicit config** – Manually configure routes and IP address for the interface ath1. For more information, see [Advanced Routing](#).

14. Configure the **Authentication** settings to match your wireless network:
  - **Authentication Mode**
  - **802.11i Security**
  - **Encryption Mode**
  - **WPA Preshared Key** - Enter the passphrase if **WPA Preshared Key** is selected as **Authentication Mode**.
    - The passphrase can consist of small and capital characters, numbers, and non alpha-numeric symbols, except the hash sign (#).
  - **EAP Credentials** - Click **Set** to enter the EAP scheme configuration if a **WPA EAP** authentication mode is used.
  - To use the DNS servers provided by the Access Point, set **Use Provider DNS** to **yes**.
15. (IP Assignment via DHCP only) Configure **Routing through the DHCP** interface to configure a default route and the metric.
16. Click **OK**.
17. (Explicit Network Selection Mode only) Select one of the wireless networks you configured in step 1.
18. Click **Send Changes** and **Activate**.

## Step 2. Activate the Network Changes

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Activate the network configuration with a **Failsafe** network activation.

For more information, see [How to Activate Network Changes](#).

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