

## How to Configure Wi-Fi Client Connection

<https://campus.barracuda.com/doc/48202625/>

Barracuda NextGen 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.
- Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > your virtual server > Server Properties** and verify that no **Virtual Server IP Addresses** from the preconfigured Wi-Fi networks are configured.
- When configuring several 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 exist on the Virtual Server that hosts the Wi-Fi service.

### 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 [Routing](#) and [How to Configure Virtual Servers](#).
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**.
  - **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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