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How to configure the Barionet 1000 as a Wi-Fi client

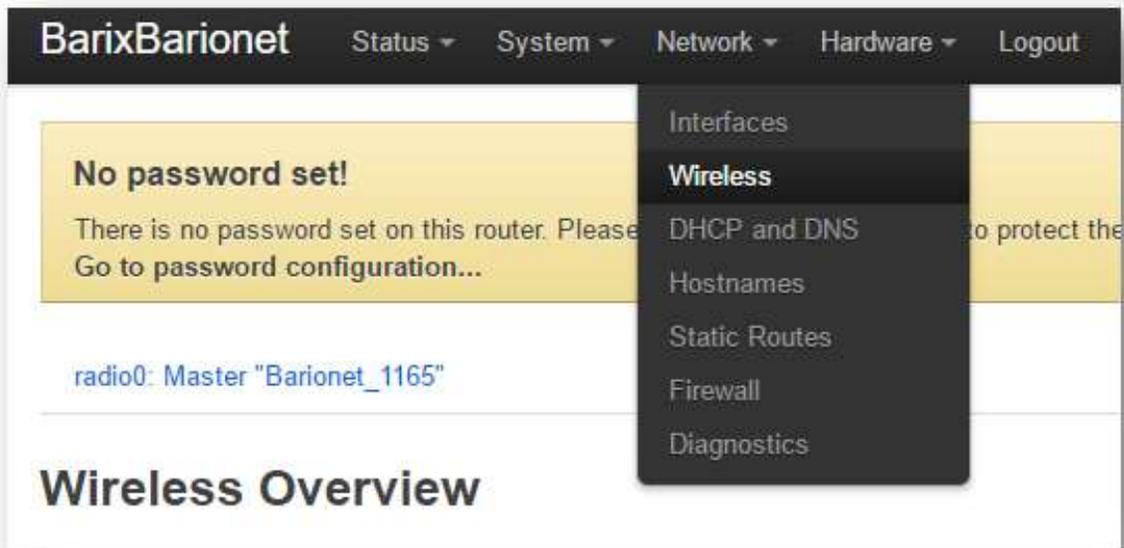
On this chapter, you will learn how to configure the Barionet 1000 to act as a Wi-Fi client. By default, the Barionet 1000 acts as a Wireless Access Point (WAP).

Pre-requisites

- Barionet 1000 installed with Barix firmware or Barix compatible firmware, downloadable at www.barix.com/downloads
- It is assumed that you can browse your device using the WebUI.

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Step1: Go to the menu Network → Interfaces



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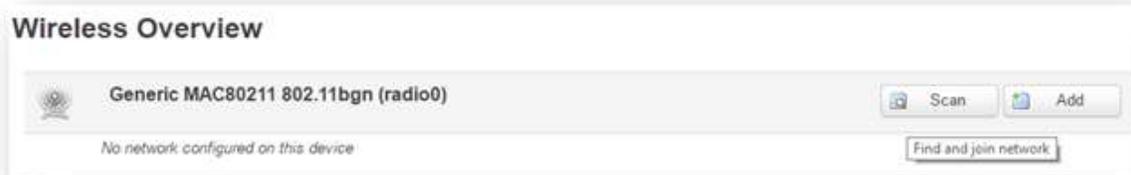
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Step2: On the Wireless Overview, you will see an SSID called “Barionet_1165” or similar. Remove it.



Step3: After that, click on the button Scan



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Step 4: After the Scan, you will see a list of the available SSID that are reachable from your Barionet 1000.

The screenshot displays the 'Join Network: Wireless Scan' interface. It features a list of detected wireless networks, each with a signal strength indicator, a 'Join Network' button, and detailed network information. The 'Barix' network is highlighted in a light blue background.

Signal Strength	Channel	Mode	BSSID	Encryption	Action
34%	1	Master	00 [redacted]	WPA2 - PSK	Join Network
45%	1	Master	D8 [redacted]	WPA2 - PSK	Join Network
57%	3	Master	10 [redacted]	WPA - PSK	Join Network
85%	6	Master	28 [redacted]	mixed WPA/WPA2 - PSK	Join Network
74%	6	Master	C8 [redacted]	open	Join Network
45%	8	Master	00 [redacted]	mixed WPA/WPA2 - PSK	Join Network
51%	13	Master	28 [redacted]	WPA2 - PSK	Join Network
60%	13	Master	00 [redacted]	mixed WPA/WPA2 - PSK	Join Network
37%	1	Master	00 [redacted]	WPA2 - PSK	Join Network

At the bottom right of the interface, there are two buttons: 'Back to overview' and 'Repeat scan'.

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Step5: Click on “Join Network” and you will see the next step

The screenshot shows a web form titled "Joining Network:" with a yellow highlighted header. The form contains several sections:

- Replace wireless configuration:** A checkbox is checked, with a tooltip that says "Check this option to delete the existing networks from this radio."
- WPA passphrase:** An empty text input field with a green lock icon to its right. A tooltip below it says "Specify the secret encryption key here."
- Name of the new network:** A text input field containing "wwan". A tooltip below it says "The allowed characters are: a-z, 0-9 and [space]".
- Create / Assign firewall-zone:** Three radio button options:
 - lan: lan. (highlighted in green)
 - warn: (empty) (highlighted in red)
 - unspecified -or- create: [input field]

At the bottom of the form, there is a tooltip that says: "Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the create field to define a new zone and attach the interface to it." At the bottom right of the form, there are two buttons: "Submit" and "Back to scan results".

Add the Wi-Fi password at the “WPA passphrase” area and click “Submit.”

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Step6: On the next page, click on “Save & Apply”

Interface Configuration

General Setup | **Wireless Security** | Advanced Settings

ESSID: [Yellow Box]

Mode: Client

BSSID: [Yellow Box]

Network

- lan
- wlan
- create: []

Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

Back to Overview | Save & Apply | Save | Reset

Step7: After that, you will need to wait around 10 seconds and your Barionet 1000 will be connected to your Wireless network.

Wireless Overview

Generic MAC80211 802.11bgn (radio0)
Channel: 13 (2.472 GHz) | Bitrate: 28.9 Mbit/s

54% SSID: [Yellow Box] Mode: Client
BSSID: 0 [Yellow Box] Encryption: WPA2 PSK (NONE)

Scan | Add | Disable | Edit | Remove

Associated Stations

SSID	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
wlan0	oneIX 2 [Yellow Box]	?	-72 / 0 dBm	115.6 Mbit/s, 20MHz, MCS 13, Short GI 28.9 Mbit/s, 20MHz, MCS 9, Short GI

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