

BARIX

How to configure the Barix Barionet 1000 as an access point

This document shows how to configure the Barix Barionet 1000 as an access point via the default webUI interface.

Pre-requisite

Access your Barionet 1000 device either via Ethernet cable or Wi-Fi using your preferred browser.

If you have trouble accessing the device, refer to the "Access the Device" section of the Barionet 1000 Quick Install Guide at www.barix.com/downloads

How to configure the Barix Barionet 1000 as an access point

Step1: Configuring the LAN IP.

Go to Network → Interfaces and configure the LAN values as in the following picture

The screenshot shows the 'BarixBarionet' web interface for configuring the LAN interface. The interface is titled 'BarixBarionet' and has a navigation menu with 'Status', 'System', 'Network', 'Hardware', and 'Logout'. The current page is 'Network' and the interface is 'LAN'. The configuration fields are: Protocol (Static address), IPv4 address (192.168.100.192), IPv4 netmask (255.255.255.0), IPv4 gateway (192.168.100.251), IPv4 broadcast (empty), Use custom DNS servers (192.168.100.252), IPv6 assignment length (60), and IPv6 assignment hint (empty). Red arrows point to the IPv4 address, IPv4 netmask, IPv4 gateway, and the first DNS server field.

Click on Save and Apply

© Barix AG 7/2017, all rights reserved. All information is subject to change without notice.

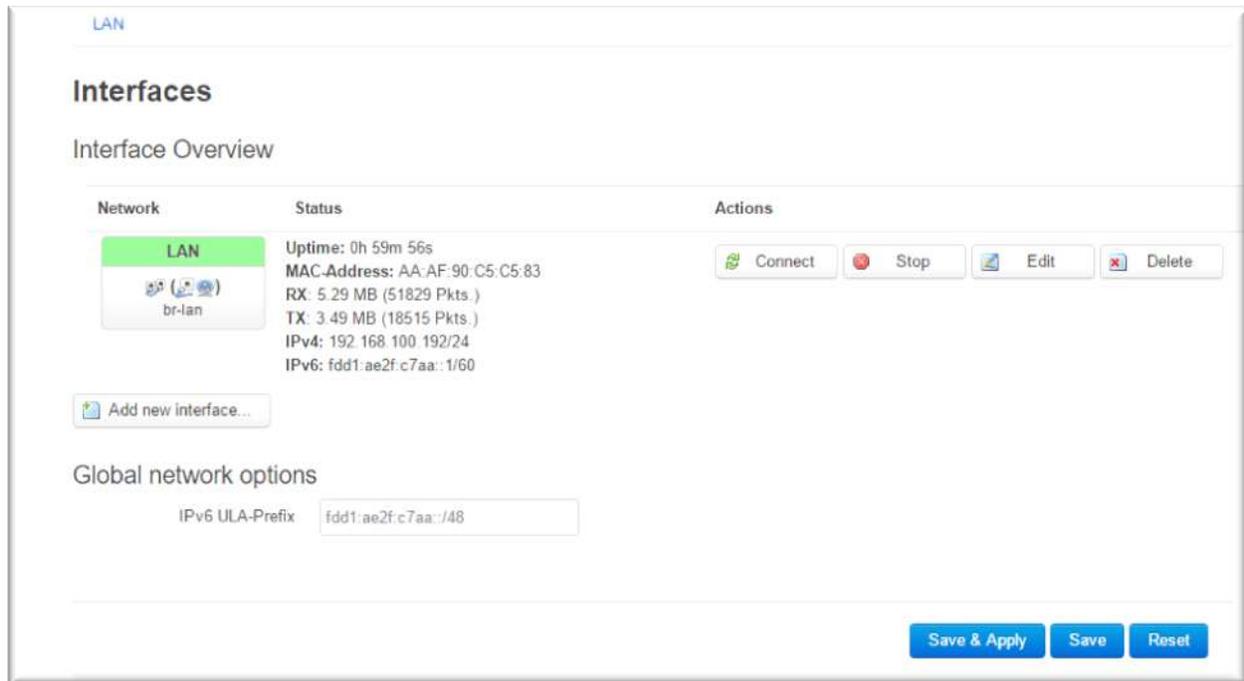
V.1.0

BARIX

Step 2: Deleting the WLAN IP

Use the Delete button on the Interface Overview and delete the WLAN interface.

Only the LAN interface should be visible now:



The screenshot displays the 'LAN' section of the network management interface. The main heading is 'Interfaces', followed by 'Interface Overview'. A table lists the available network interfaces:

Network	Status	Actions
LAN br-lan	Uptime: 0h 59m 56s MAC-Address: AA:AF:90:C5:C5:83 RX: 5.29 MB (51829 Pkts.) TX: 3.49 MB (18515 Pkts.) IPv4: 192.168.100.192/24 IPv6: fdd1:ae2f:c7aa::1/60	Connect Stop Edit Delete

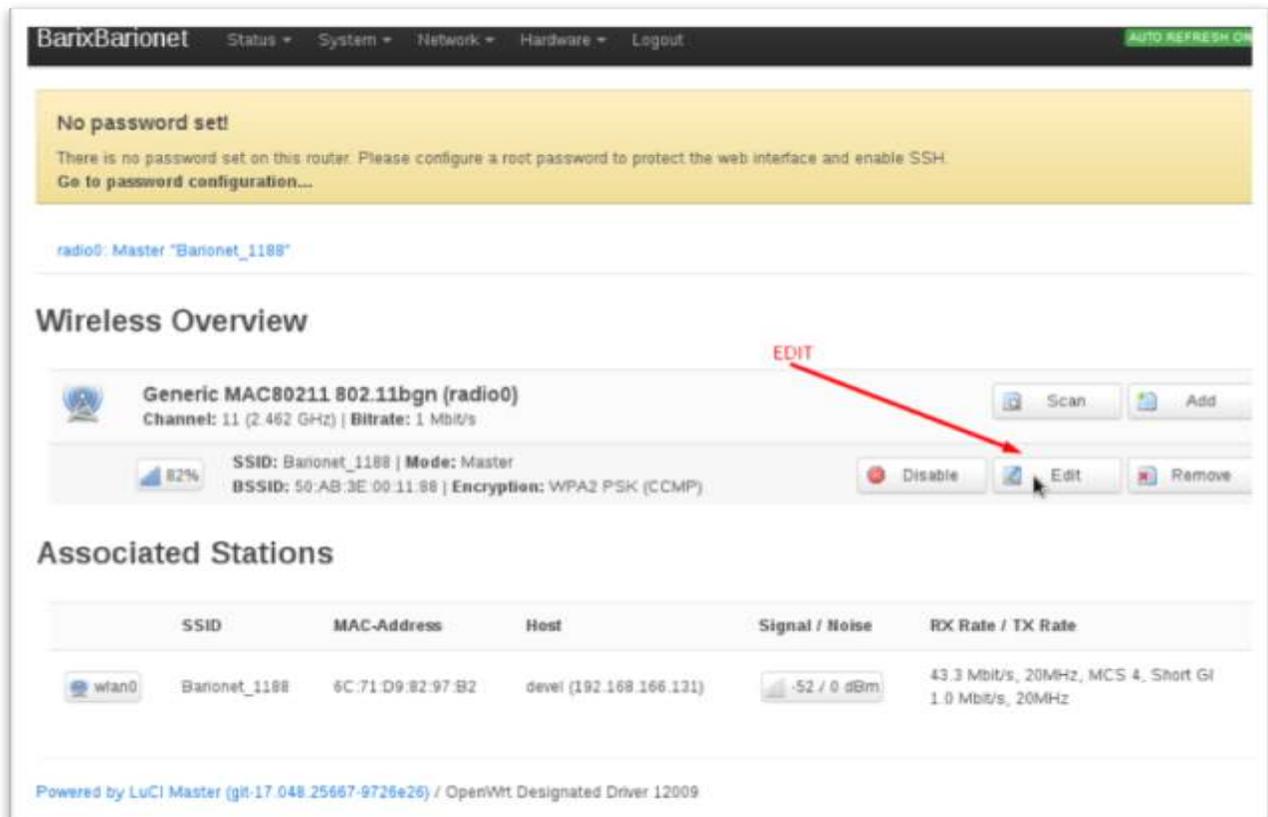
Below the table, there is a button labeled 'Add new interface...'. Under the 'Global network options' section, the 'IPv6 ULA-Prefix' is set to 'fdd1:ae2f:c7aa::/48'. At the bottom right, there are three buttons: 'Save & Apply', 'Save', and 'Reset'.

BARIX

Step 3: Associating your station to the Barionet 1000 Wi-Fi

Associate your computer/laptop to the Barionet 1000 Wi-Fi. Check the Quick Install Guide if you are unsure how to perform do this.

Afterwards, at Network → Wireless Overview edit the Wireless Overview



The screenshot shows the BarixBarionet web interface. At the top, there is a navigation bar with 'Status', 'System', 'Network', 'Hardware', and 'Logout' menus, and an 'AUTO REFRESH ON' indicator. A yellow warning box states 'No password set!' and provides instructions to configure a root password. Below this, the 'radio0: Master "Barionet_1188"' is listed. The main section is titled 'Wireless Overview' and displays details for 'Generic MAC80211 802.11bgn (radio0)' on Channel 11 (2.462 GHz) with a bitrate of 1 Mbit/s. It shows a signal strength of 82% and details for SSID: Barionet_1188, Mode: Master, BSSID: 50:AB:3E:00:11:88, and Encryption: WPA2 PSK (CCMP). Action buttons for 'Scan', 'Add', 'Disable', 'Edit', and 'Remove' are visible. A red arrow points to the 'Edit' button. Below the wireless overview is the 'Associated Stations' section, which contains a table with the following data:

	SSID	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
wlan0	Barionet_1188	6C:71:D9:82:97:B2	devel (192.168.166.121)	-52 / 0 dBm	43.3 Mbit/s, 20MHz, MCS 4, Short GI 1.0 Mbit/s, 20MHz

At the bottom, it states 'Powered by LuCI Master (git-17.048.25667-9726e26) / OpenWrt Designated Driver 12009'.

BARIX

and associate to LAN:

The screenshot displays the BarixBarionet web interface. At the top, there is a navigation bar with the following items: BarixBarionet, Status, System, Network, Hardware, and Logout. An 'AUTO REFRESH ON' indicator is visible in the top right corner.

Below the navigation bar, there are three dropdown menus for 'Operating frequency': Mode (set to 'N'), Channel (set to '11 (2462 MHz)'), and Width (set to '20 MHz'). Below these is a 'Transmit Power' dropdown menu set to '12 dBm (15 mW)', with a radio button selected for 'dBm'.

The main section is titled 'Interface Configuration' and has four tabs: 'General Setup', 'Wireless Security', 'MAC-Filter', and 'Advanced Settings'. The 'General Setup' tab is active.

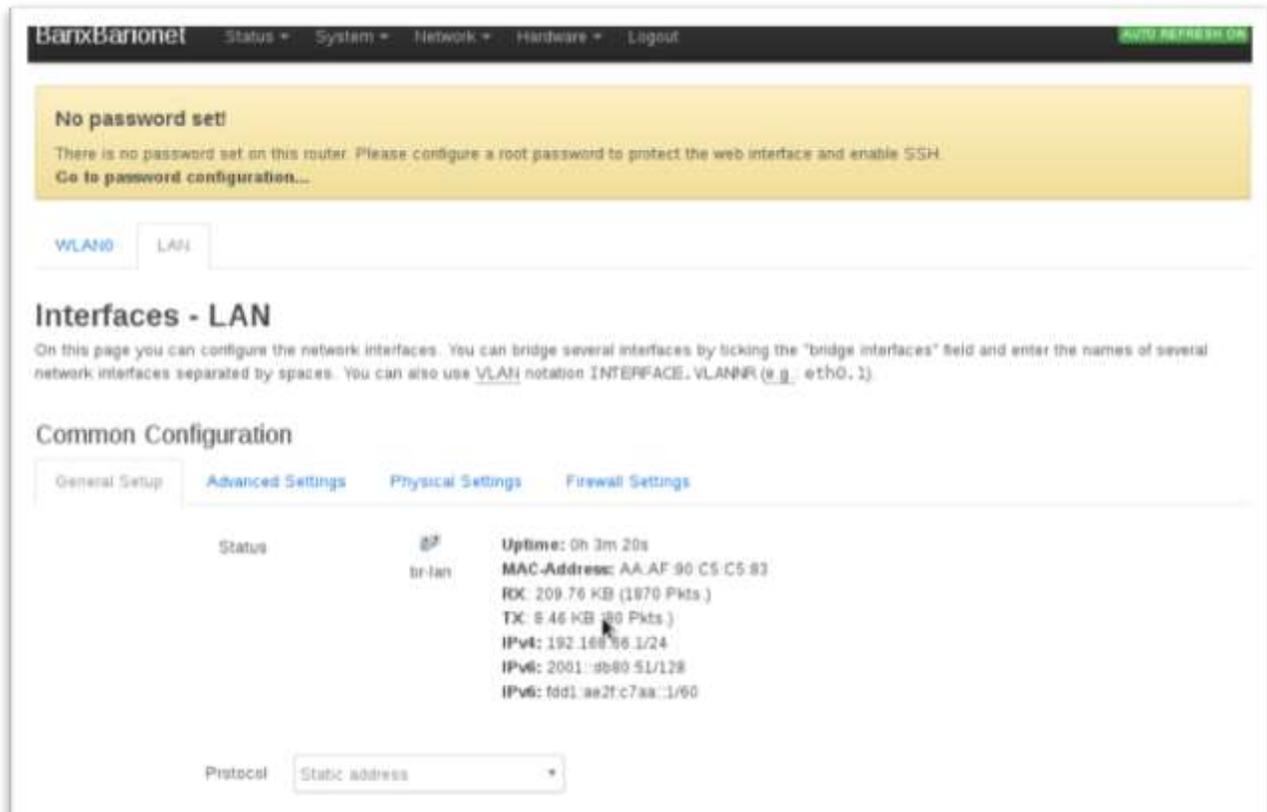
Under 'General Setup', there are several configuration options:

- 'ESSID' is set to 'Barionet_1188'.
- 'Mode' is set to 'Access Point'.
- 'Network' section has a checked checkbox and a dropdown menu showing 'lan.' with a mouse cursor over it. Below this is an unchecked checkbox labeled 'create' followed by an empty text input field.
- A blue information icon is followed by the text: 'Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.'
- 'Hide ESSID' has an unchecked checkbox.
- 'WMM Mode' has a checked checkbox.

BARIX

Step 4: Verify

After clicking on Save and apply the Barionet 1000 should be configured as an access point. See picture below.



The screenshot displays the BarixBarionet web interface. At the top, there is a navigation bar with 'Status', 'System', 'Network', 'Hardware', and 'Logout' options, and a 'AUTO REPAIR ON' indicator. A yellow warning box states 'No password set!' and provides instructions to configure a root password. Below this, there are tabs for 'WLAN0' and 'LAN'. The main heading is 'Interfaces - LAN', followed by a descriptive paragraph. Underneath, there is a 'Common Configuration' section with sub-tabs: 'General Setup', 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'. The 'Advanced Settings' tab is active, showing a table with interface details for 'br-lan'. The table includes fields for Status, Uptime, MAC-Address, RX/TX statistics, and IPv4/IPv6 addresses. At the bottom, there is a 'Protocol' dropdown menu set to 'Static address'.

Status	br-lan	Uptime: 0h 3m 20s
		MAC-Address: AA:AF:90:C5:C5:83
		RX: 209.76 KB (1870 Pkts.)
		TX: 8.46 KB (80 Pkts.)
		IPv4: 192.168.96.1/24
		IPv6: 2001::db80:51/128
		IPv6: fdd1:aa2f:c7aa::1/60