

RAPIDUS WIRELESS NETWORKS

RAPIDUS WIRELESS RL-SERIES USER GUIDE

COVERS INDOOR AND OUTDOOR SERIES MODELS

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Firmware: RL-K-R6

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Rafael Garrigo
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Rapidus Wireless Networks

118 19055 Airport Way
Pitt Meadows B.C. V3Y0G4
Canada

Contact Information

Toll Free Number	1-866-872-6936	Sales/General Inquiries	sales@rapiduswireless.com
Technical Support	1-888-460-6366	Technical Support	Support@rapiduswireless.com
Local Number	604-363-7438	Sales Rep. Rafael	Rgarrigo@rapiduswireless.com
Fax Number	N/A		

Website

Additional product information and support details are available on our web site:
www.rapiduswireless.com

About Rapidus Wireless Networks

The company's dedication to customer satisfaction provides comprehensive solutions with superior products. Whether you are in the market for connectors or a complete network of high speed wireless access points or mesh products, Rapidus is the answer. With over 75 years of combined experience in the wireless field, our team of experts have installed wireless systems worldwide. We provide product selection assistance and rapid product delivery backed by knowledgeable support.

Contents

QUICK START4

UPGRADE.....6

WIFI/MESH.....9

ACCESS POINT.....15

CLIENT (STATIONS).....17

ROUTER.....19

VLAN.....31

QUICK START

COMPUTER CONFIGURATION/INSTALL GUIDE

Step 1:

Connect an Ethernet cable from the PC/Laptop to the PC connector on the POE LAN port.

Step 2:

Connect an Ethernet cable from the RL-Series device (radio) to the POE port on the POE.

Step 3:



Connect a PC to the “LAN” port of the POE, with a straight through Ethernet cable

Note: Connect the device (radio) to the “POE” port and the “LAN” port to PC/switch/router. Power the POE unit

Step 4:

Connecting to the device (radio)

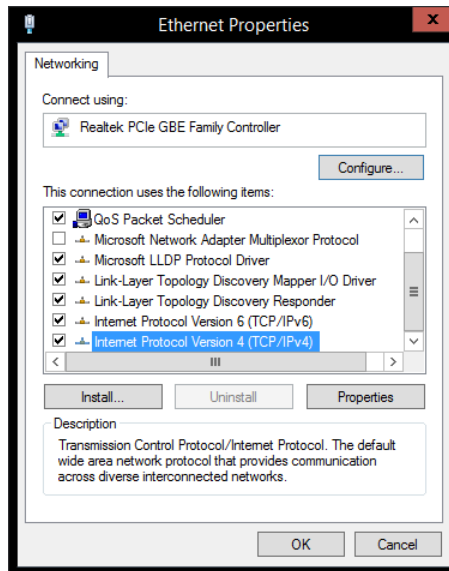
Before accessing the configuration interface, you have to change the network connection setting in your computer to be on the same subnet as the device (radio). Alternatively, you could use the RapiFind Utility program to assign the device (radio) a temporary IP alias that is on the same subnet as your computer.

Changing the IP address – Windows 8

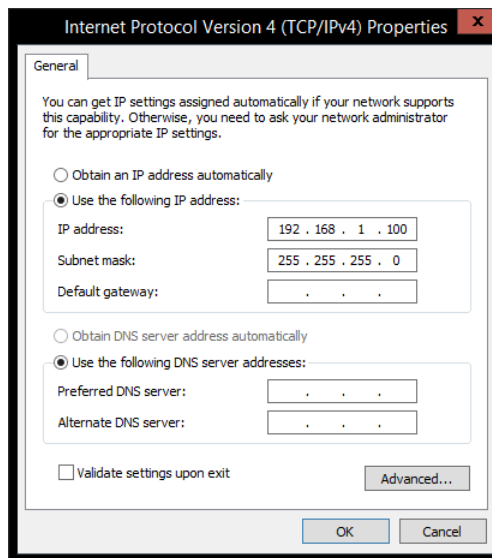
1. In your computer, open Control Panel > Network and Sharing Center then click change adaptor settings on the left hand menu. Select and right click the Ethernet icon.



2. Then click **Properties**.
3. In the Ethernet Properties > Networking tab, select **Internal Protocol Version 4 (TCP/IPv4)**



4. In the Internet Protocol (TCP/IP) properties > General, select **Use the following IP address**.
5. Enter your **IP address** and **Subnet Mask (255.255.255.0)**. The default IP address of the radio is 192.168.1.99, which cannot be used here. Use anything else in the same subnet, the IP address of the computer can be any IP varied from 192.168.1.2 to 192.168.1.254



6. Click **OK** and **Close**

Step 5:

Configuration of RL-Series device features and option are accessible via the web page.

1. Open your internet browser (such as Internet Explorer, Chrome, or Firefox).
2. In the address bar, type your IP address (default IP: 192.168.1.99)
3. In the login dialog, enter your Username and Password. (default Username: Root; no Password is required)
4. Click **OK**, you will then access the configuration interface. **Setup and Configuration via web GUI.**

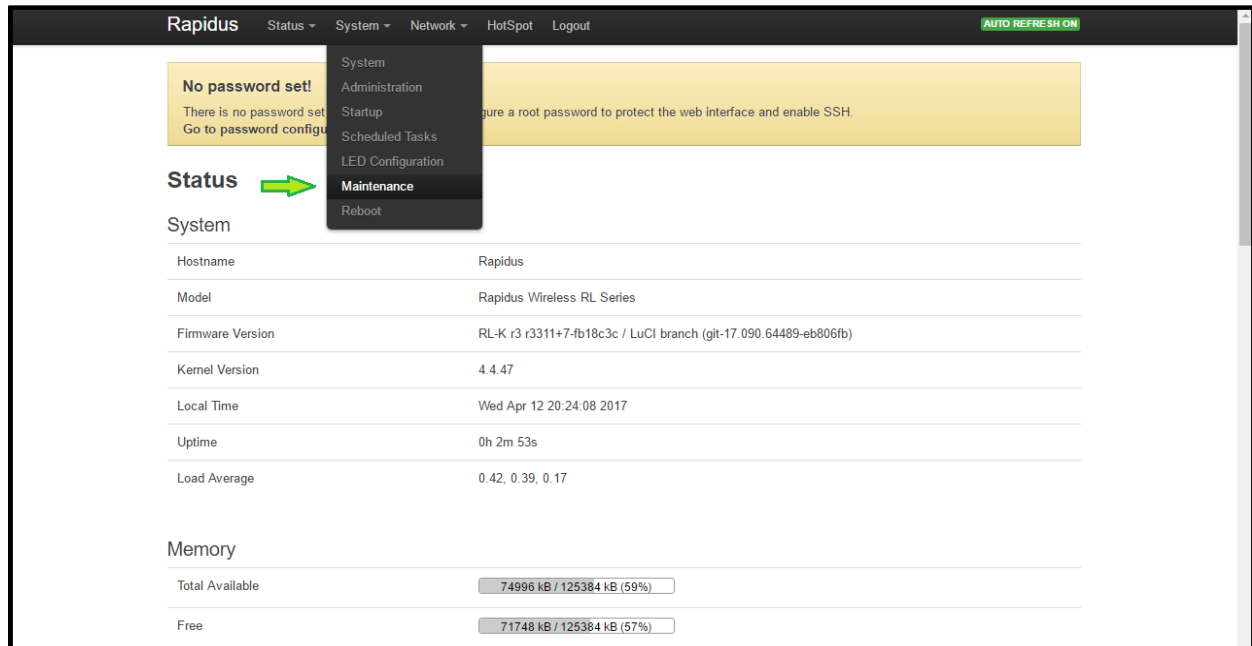
Default IP Address	192.168.1.99
Default Username	Root
Default Password	*No Password Required*

UPGRADE

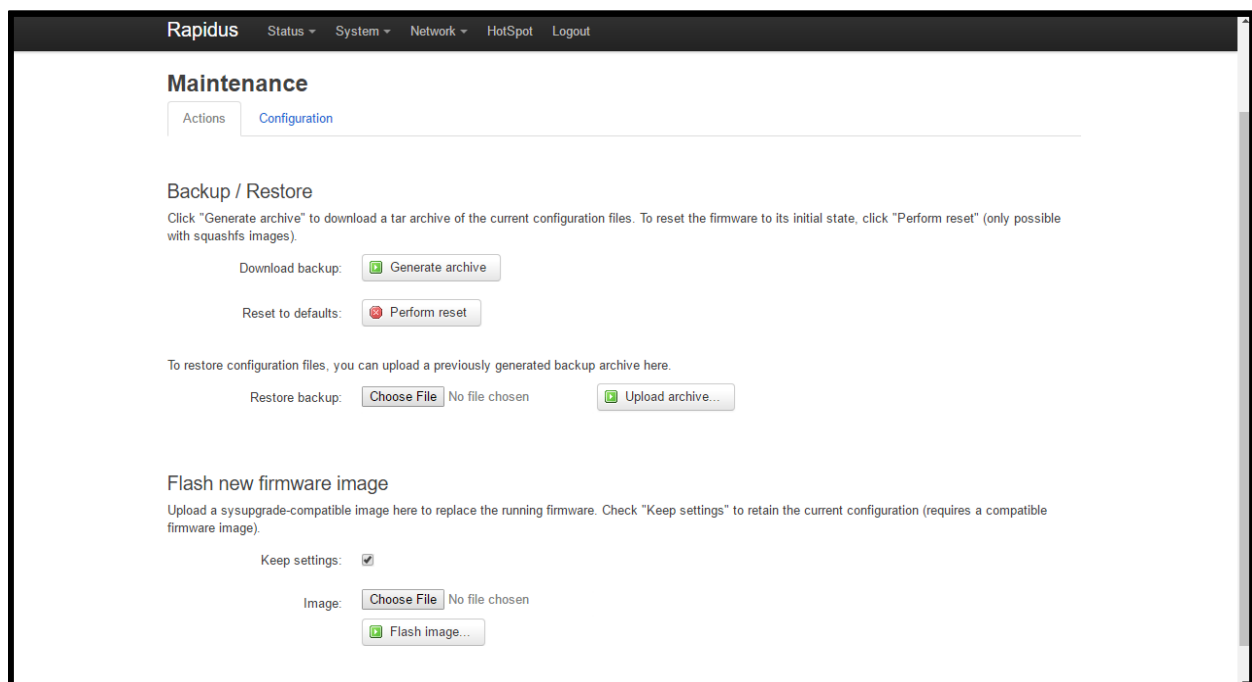
UPGRADE FIRMWARE HOW-TO

The following steps will detail the process of updating/upgrading your current firmware to the latest released firmware supported by Rapidus Wireless Networks. This manual shows the process on how to update the firmware on your device.

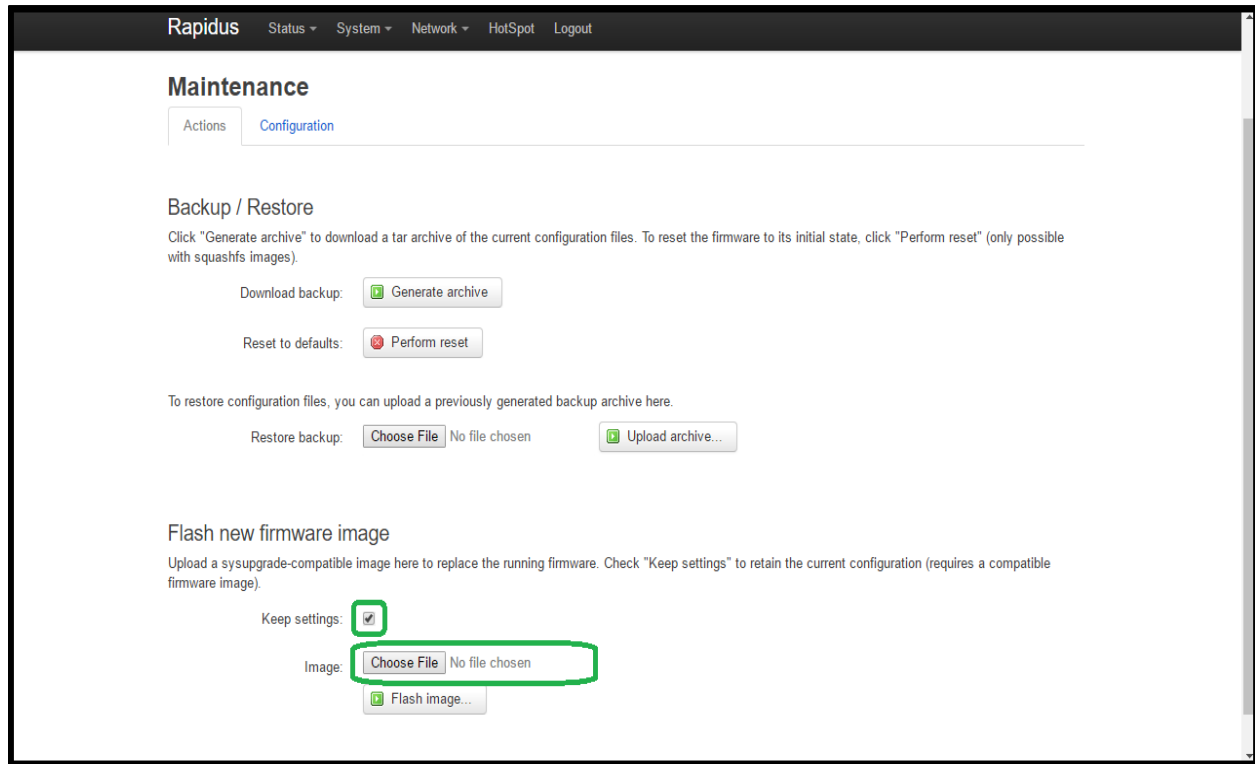
To begin your firmware update please go System > Maintenance.



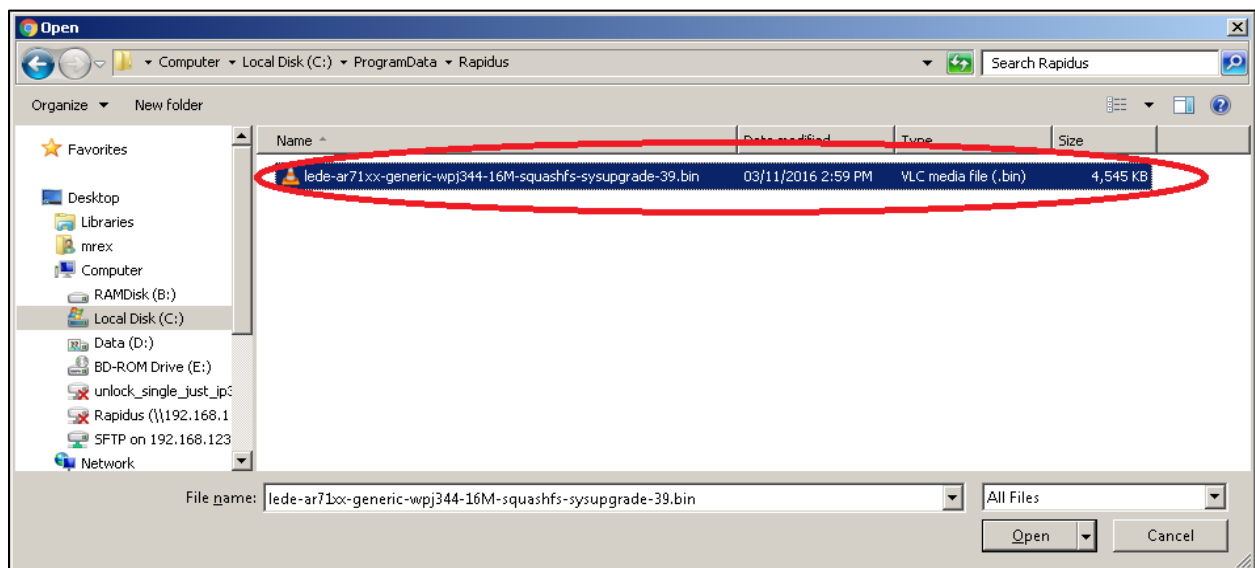
You will be directed to the following page.



Under the “Flash new firmware image” section, click “Choose File” to select the new firmware that will be supplied by Rapidus Wireless Networks. **Be sure to check the “Keep settings” box, your device will default to factory settings if this box is not checked.** (The latest firmware updates will either be sent by email upon request or they can be downloaded from our website at www.rapiduswireless.com).



Select the most current firmware update that you have downloaded or have been supplied by from the Rapidus Wireless Networks support team.



Once you have selected our latest firmware update click “Flash Image”

The screenshot shows the Rapidus web interface. At the top, there's a navigation bar with 'Rapidus', 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. Below this, there's a tabbed interface with 'Actions' and 'Configuration'. The 'Configuration' tab is active, showing a 'Backup / Restore' section with buttons for 'Generate archive', 'Perform reset', and 'Upload archive...'. Below this is the 'Flash new firmware image' section. It includes a 'Keep settings' checkbox (checked) and an 'Image' field with a 'Choose File' button. The 'Flash image...' button is highlighted with a green box.

You will be directed to the following page. Please click “Proceed” to finish your update.

The screenshot shows the 'Flash Firmware - Verify' page. At the top, there's a yellow warning box stating 'No password set!' with a link to 'Go to password configuration...'. Below this, the 'Flash Firmware - Verify' section provides information about the flash image, including its MD5, SHA256, and size. At the bottom, there are 'Cancel' and 'Proceed' buttons. The 'Proceed' button is highlighted with a green box.

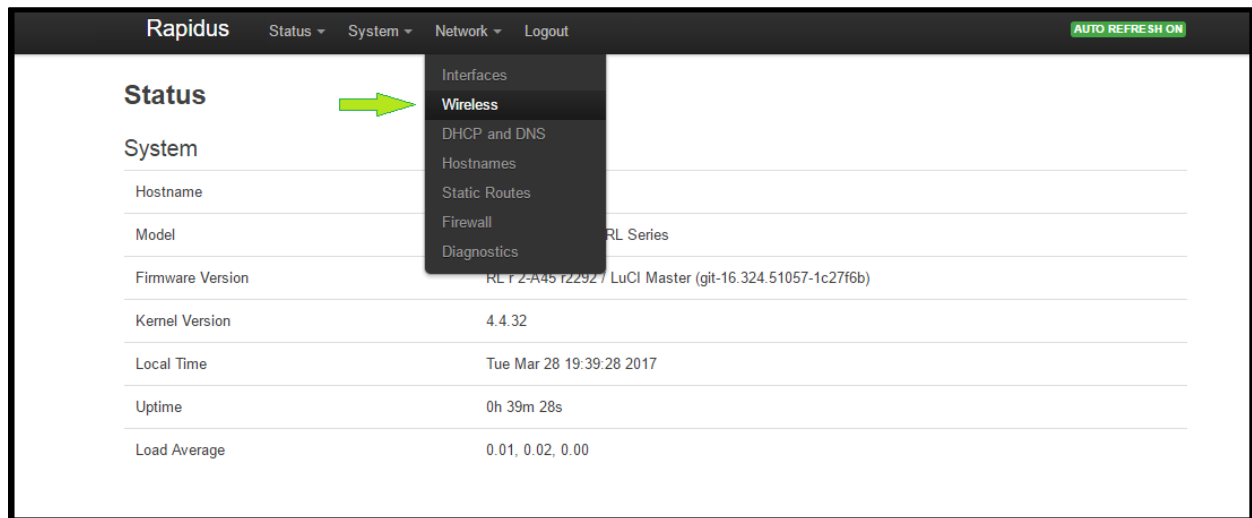
You have now completed the process of updating your radio to our latest firmware. If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

WIFI/MESH

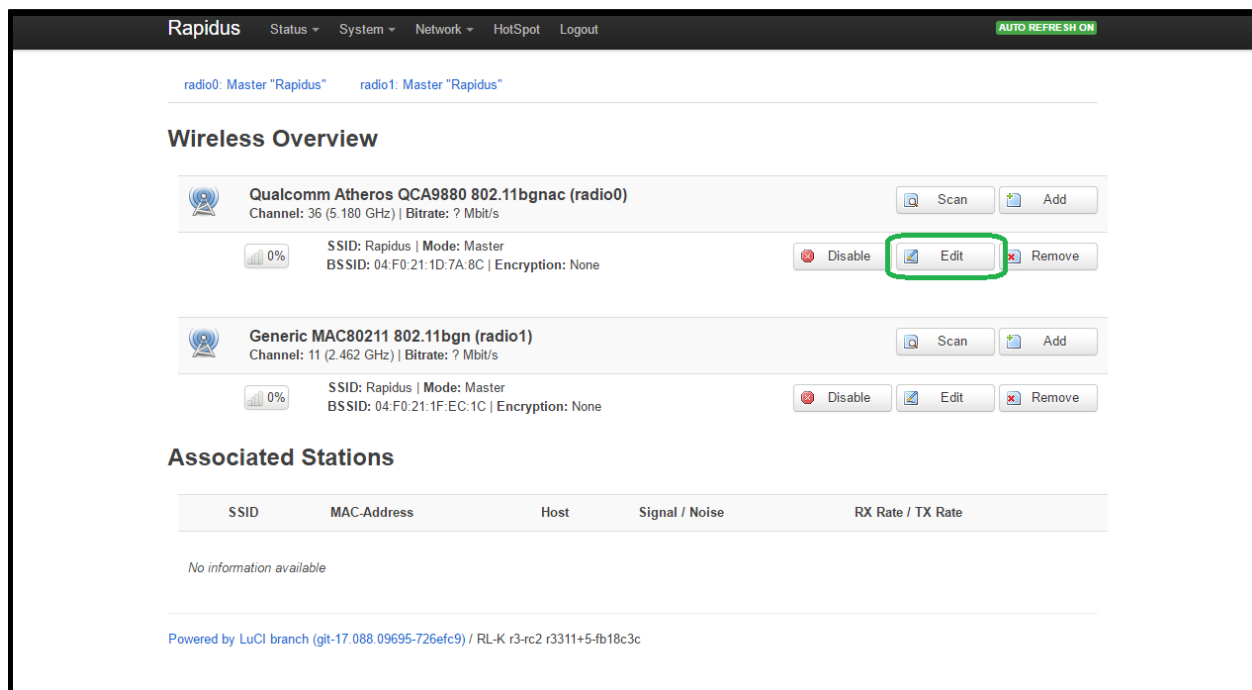
CONFIGURATION MOBILE MESH HOW-TO

Configure Wireless Settings

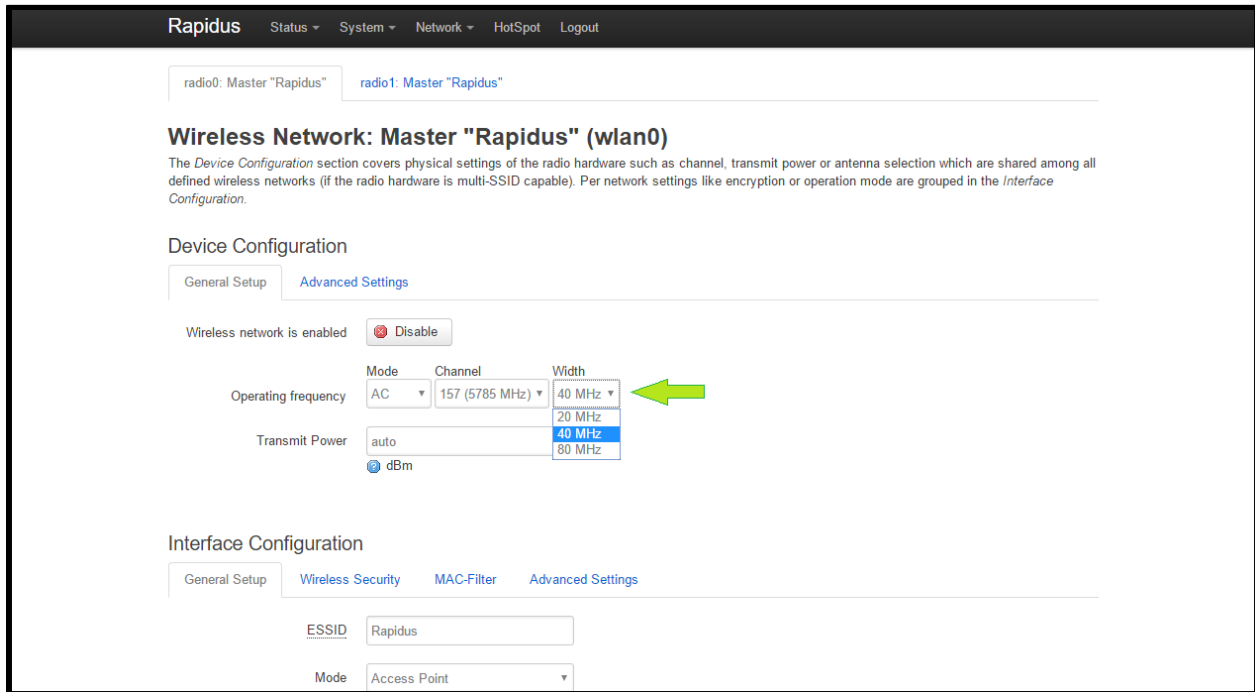
To getting started on configuring a Mobile Mesh network, begin by Clicking on Network > Wireless.



Click the “Edit” button for the radio that you choose to be used for the Mobile Mesh



In the Device Configuration > General Setup Tab, Select the channel that you will be operating on and choose between 20MHz, 40MHz or 80MHz.



radio0: Master "Rapidus" radio1: Master "Rapidus"

Wireless Network: Master "Rapidus" (wlan0)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

Device Configuration

General Setup Advanced Settings

Wireless network is enabled

Operating frequency Mode Channel Width

AC 157 (5785 MHz) 40 MHz

Transmit Power auto 20 MHz 40 MHz 80 MHz

dBm

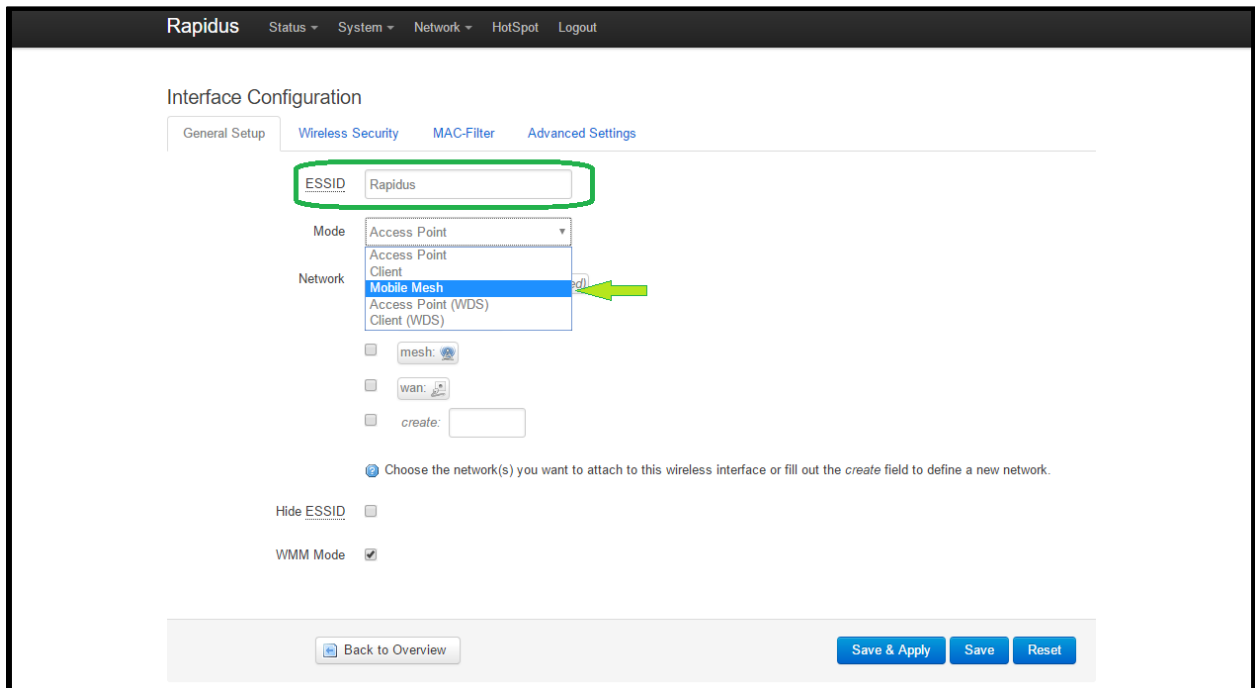
Interface Configuration

General Setup Wireless Security MAC-Filter Advanced Settings

ESSID Rapidus

Mode Access Point

In the Interface Configuration > General Setup Tab, Change your ESSID name to your preference and select "Mobile Mesh" from the "Mode" dropdown options.



Interface Configuration

General Setup Wireless Security MAC-Filter Advanced Settings

ESSID Rapidus

Mode Access Point

Network Access Point Client Mobile Mesh Access Point (WDS) Client (WDS)

mesh: wan: create:

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

WMM Mode

Back to Overview Save & Apply Save Reset

In the Network section you must unselect “Lan”.

Rapidus Status System Network HotSpot Logout

Interface Configuration

General Setup **Wireless Security** Advanced Settings

ESSID:

Mode:

BSSID:

Network:

- ☐ hotspot: (no interfaces attached)
- ☒ lan:
- ☐ mesh:
- ☐ wan:
- ☐ 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](#)

Powered by LuCI branch (git-17.088.09695-726efc9) / RL-K r3-rc2 r3311+5-fb18c3c

Select “mesh” then click “Save & Apply” to save these changes

Rapidus Status System Network HotSpot Logout

Interface Configuration

General Setup **Wireless Security** Advanced Settings

ESSID:

Mode:

BSSID:

Network:

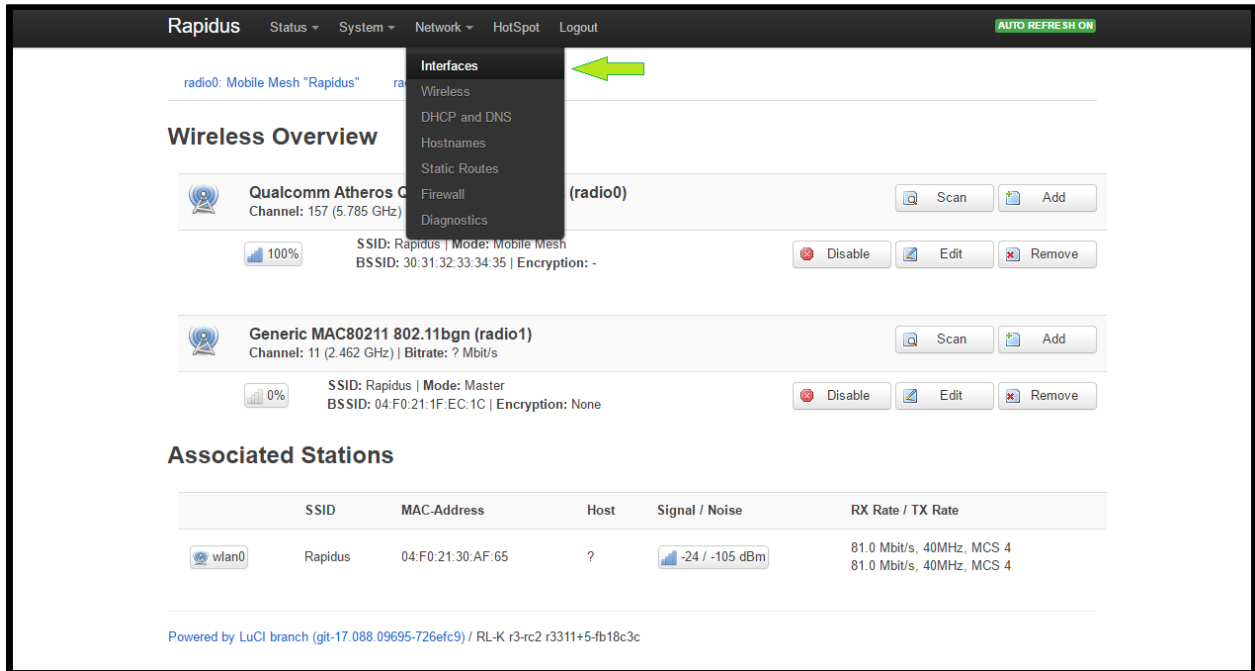
- ☐ hotspot: (no interfaces attached)
- ☐ lan:
- ☒ mesh:
- ☐ wan:
- ☐ create:

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](#)

Powered by LuCI branch (git-17.088.09695-726efc9) / RL-K r3-rc2 r3311+5-fb18c3c

Click Network > Interface

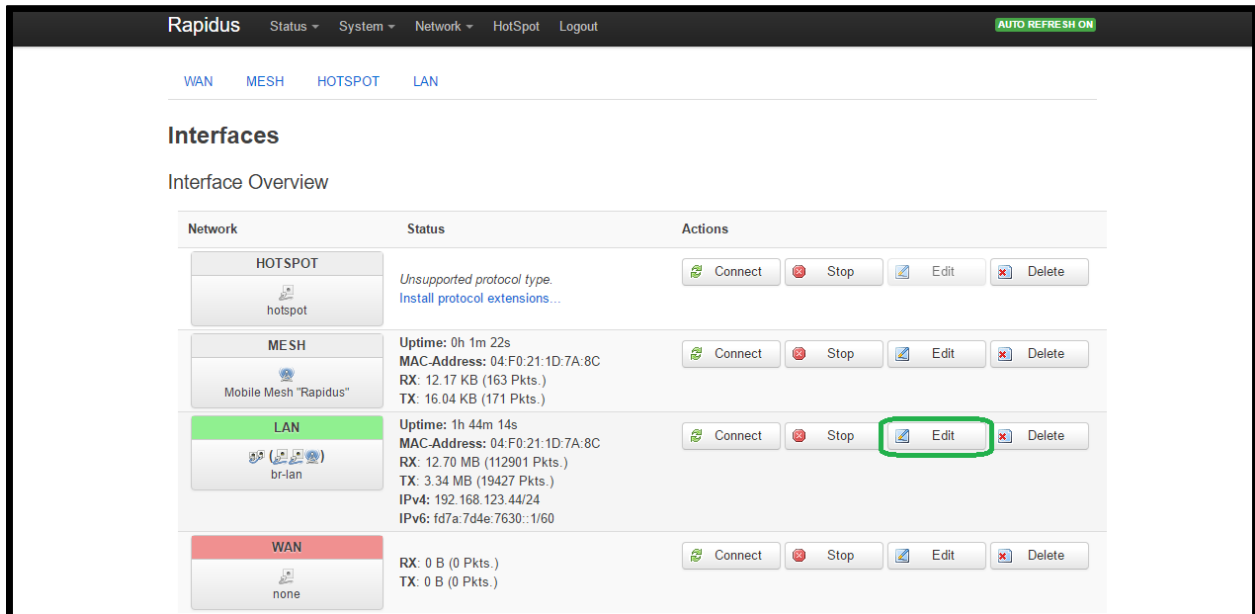


The screenshot shows the Rapidus web interface with the 'Network' menu open. The 'Interfaces' option is highlighted, and a green arrow points to it. The main content area shows the 'Wireless Overview' section with details for 'radio0: Mobile Mesh "Rapidus"' and 'Generic MAC80211 802.11bgn (radio1)'. Below this is the 'Associated Stations' table.

SSID	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
wlan0	Rapidus	04:F0:21:30:AF:65	? -24 / -105 dBm	81.0 Mbit/s, 40MHz, MCS 4 81.0 Mbit/s, 40MHz, MCS 4

Powered by LuCI branch (git-17.088.09695-726efc9) / RL-K r3-rc2 r3311+5-fb18c3c

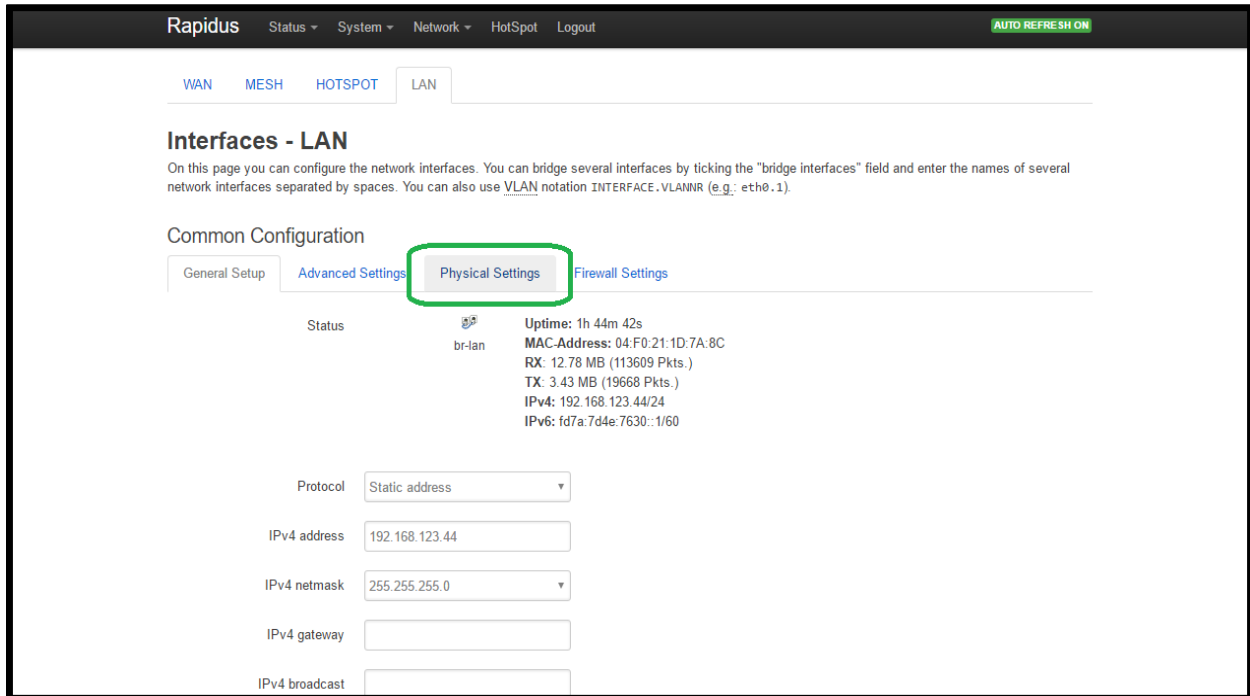
When directed to the “Interfaces” page, click “Edit”



The screenshot shows the 'Interfaces' page with a table of network interfaces. The 'LAN' interface is selected, and the 'Edit' button is highlighted with a green box.

Network	Status	Actions
HOTSPOT hotspot	Unsupported protocol type. Install protocol extensions...	Connect Stop Edit Delete
MESH Mobile Mesh "Rapidus"	Uptime: 0h 1m 22s MAC-Address: 04:F0:21:1D:7A:8C RX: 12.17 KB (163 Pkts.) TX: 16.04 KB (171 Pkts.)	Connect Stop Edit Delete
LAN br-lan	Uptime: 1h 44m 14s MAC-Address: 04:F0:21:1D:7A:8C RX: 12.70 MB (112901 Pkts.) TX: 3.34 MB (19427 Pkts.) IPv4: 192.168.123.44/24 IPv6: fd7a:7d4e:7630::1/60	Connect Stop Edit Delete
WAN none	RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.)	Connect Stop Edit Delete

Please click on the “Physical Setting” Tab



Rapidus Status System Network HotSpot Logout AUTO REFRESH ON


WAN MESH HOTSPOT LAN

Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup **Advanced Settings** **Physical Settings** Firewall Settings

Status:  br-lan

Uptime: 1h 44m 42s
 MAC-Address: 04:F0:21:1D:7A:8C
 RX: 12.78 MB (113609 Pkts.)
 TX: 3.43 MB (19668 Pkts.)
 IPv4: 192.168.123.44/24
 IPv6: fd7a:7d4e:7630::1/60

Protocol: Static address

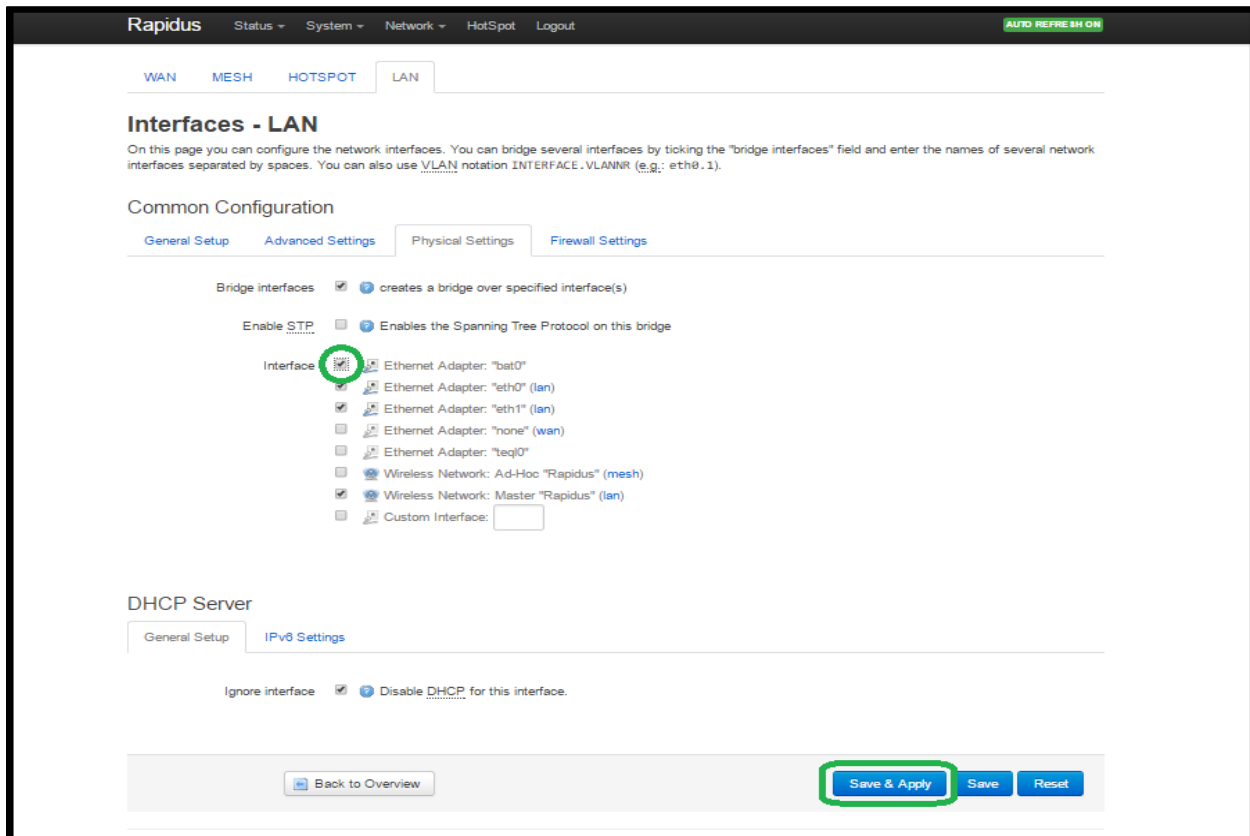
IPv4 address: 192.168.123.44

IPv4 netmask: 255.255.255.0

IPv4 gateway:

IPv4 broadcast:

Then Select “Ethernet Adapter: “bat0””. Then save and apply by clicking “Save & Apply”



Rapidus Status System Network HotSpot Logout AUTO REFRESH ON

WAN MESH HOTSPOT LAN

Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup Advanced Settings **Physical Settings** Firewall Settings

Bridge interfaces: ☒ creates a bridge over specified interface(s)

Enable STP: ☐ Enables the Spanning Tree Protocol on this bridge

Interface: ☒ Ethernet Adapter: "bat0"

☒ Ethernet Adapter: "eth0" (lan)

☒ Ethernet Adapter: "eth1" (lan)

☐ Ethernet Adapter: "none" (wan)

☐ Ethernet Adapter: "leq10"

☐ Wireless Network: Ad-Hoc "Rapidus" (mesh)

☒ Wireless Network: Master "Rapidus" (lan)

☐ Custom Interface:

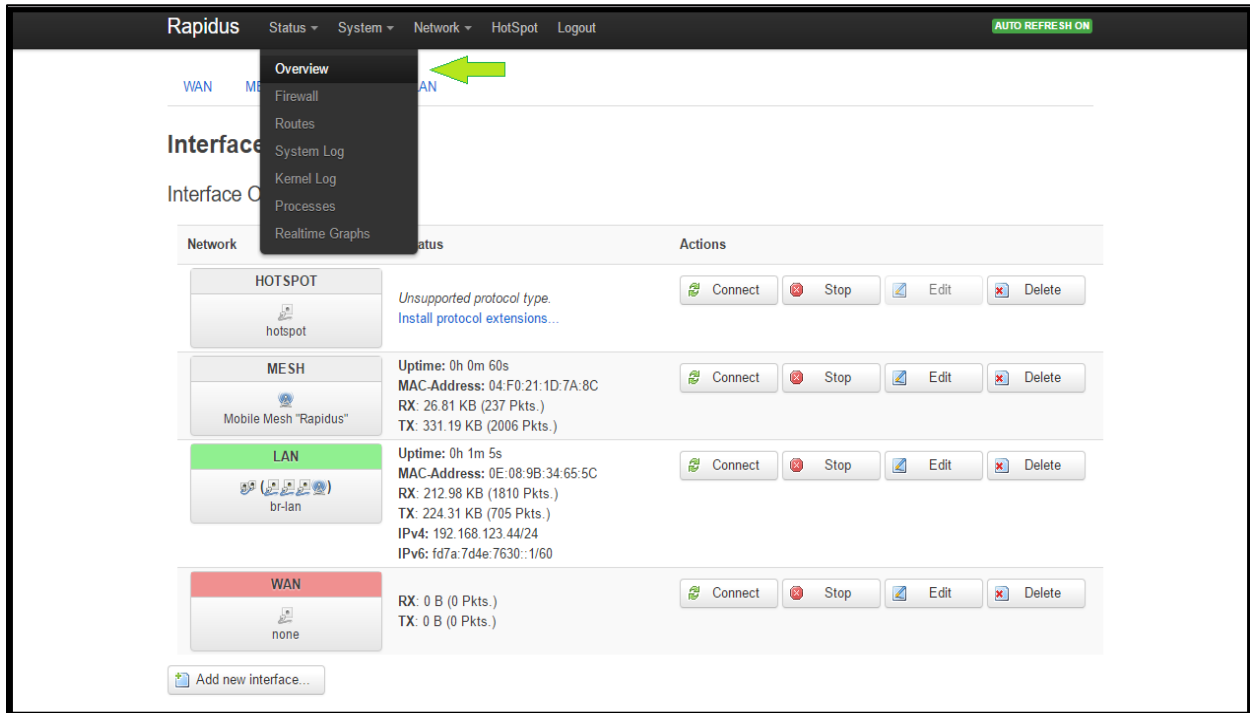
DHCP Server

General Setup IPv6 Settings

Ignore interface: ☒ Disable DHCP for this interface.

Back to Overview **Save & Apply** Save Reset

Please Click Status > Overview.

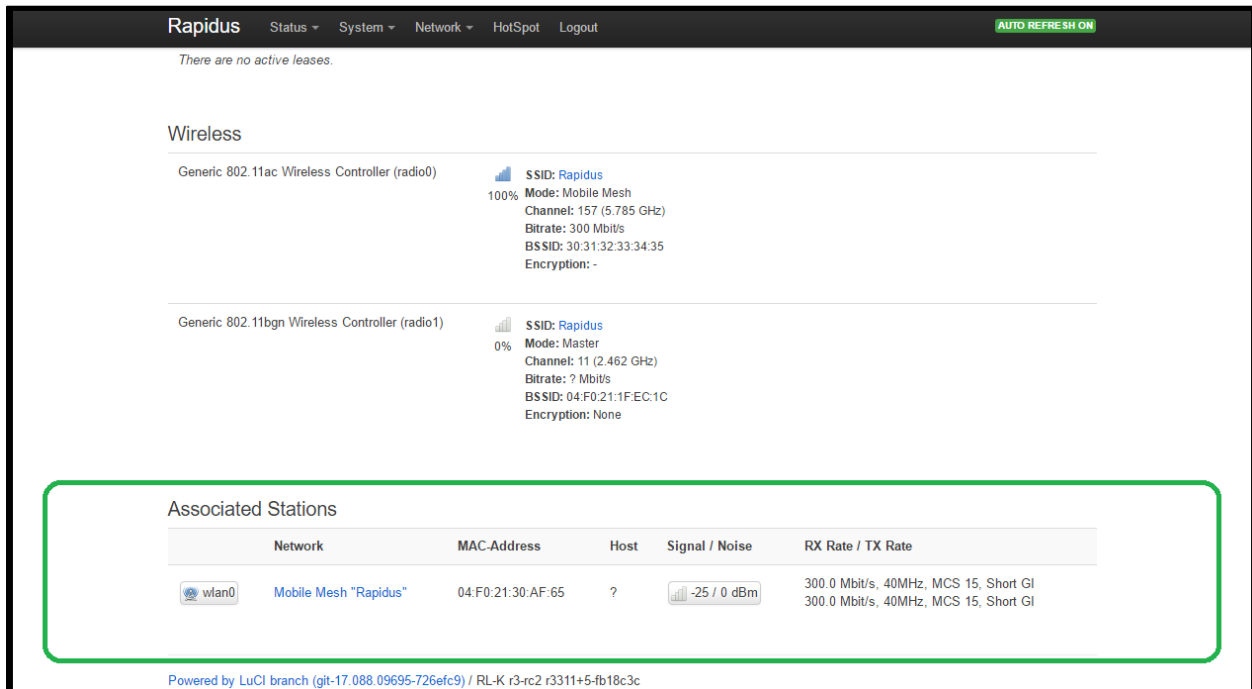


The screenshot shows the Rapidus web interface. At the top, there is a navigation bar with 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. A green arrow points to the 'Overview' option in the 'Status' dropdown menu. Below the navigation bar, there is a section for 'Interface' with a table showing the status of various interfaces. The 'LAN' interface is highlighted in green.

Network	Status	Actions
HOTSPOT	Unsupported protocol type. Install protocol extensions...	Connect Stop Edit Delete
MESH	Uptime: 0h 0m 60s MAC-Address: 04:F0:21:1D:7A:8C RX: 26.81 KB (237 Pkts.) TX: 331.19 KB (2006 Pkts.)	Connect Stop Edit Delete
LAN	Uptime: 0h 1m 5s MAC-Address: 0E:08:9B:34:65:5C RX: 212.98 KB (1810 Pkts.) TX: 224.31 KB (705 Pkts.) IPv4: 192.168.123.44/24 IPv6: fd7a:7d4e:7630::1/60	Connect Stop Edit Delete
WAN	RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.)	Connect Stop Edit Delete

At the bottom, there is a button 'Add new interface...'.

In the Section “Associated Stations” at the bottom of the page, you will see the devices that are connected to your mesh network. (2 or more devices need to be configured to MESH mode setting for you to be able to see them under “Associated Stations”)



The screenshot shows the Rapidus web interface. At the top, there is a navigation bar with 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. Below the navigation bar, there is a section for 'Wireless' with two wireless controllers. Below the wireless controllers, there is a section for 'Associated Stations' which is highlighted with a green box. The 'Associated Stations' section contains a table with the following data:

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
wlan0	Mobile Mesh "Rapidus"	04:F0:21:30:AF:65	?	-25 / 0 dBm

At the bottom, there is a footer with the text: 'Powered by LuCI branch (git-17.088.09695-726efc9) / RL-K r3-r2 r3311+5-fb18c3c'.

You have now completed the process of creating your Mobile-Mesh Network setup and can continue to configure more units to your network. If you find you are having issues you can contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

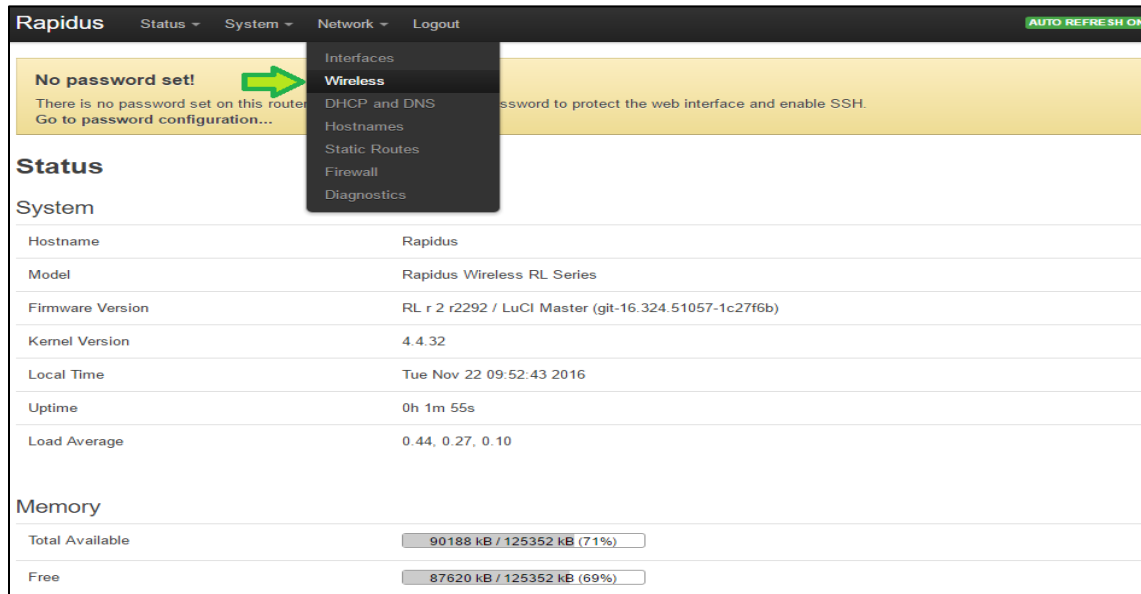
ACCESS POINT

CONFIGURATION AP HOW-TO

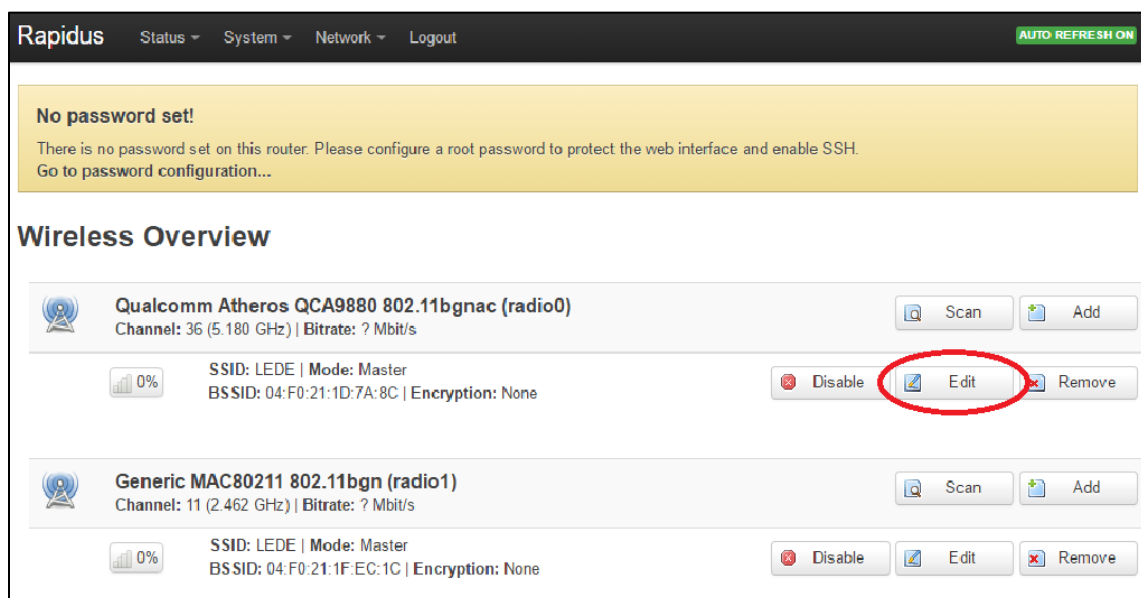
Configuring AP Settings

This section will show you how to set up and configure an AP on your desired radio unit.

To begin configuring your AP, please go to the “Network” Tab and select “Wireless” from the pull-down tab.



You will be directed to the following page, once here click “Edit” on the radio you are configuring to be your AP.



When directed to the following page, in the “Device Configuration” section under the “General Setup” tab, select a channel from the drop-down menu of the Operating frequency > Channel drop-down. Also select between 20 MHz and 40 MHz in the “Width” drop-down. (Best practice: select a higher channel to avoid interfering with other networks)

Create your own ESSID name that you will use for your AP. Be sure that the “Mode” is set to “Access Point” Click “Save & Apply” to save your settings

You have now completed the process of creating your AP. If you find you are having issues or the process is not configuring correctly, please contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

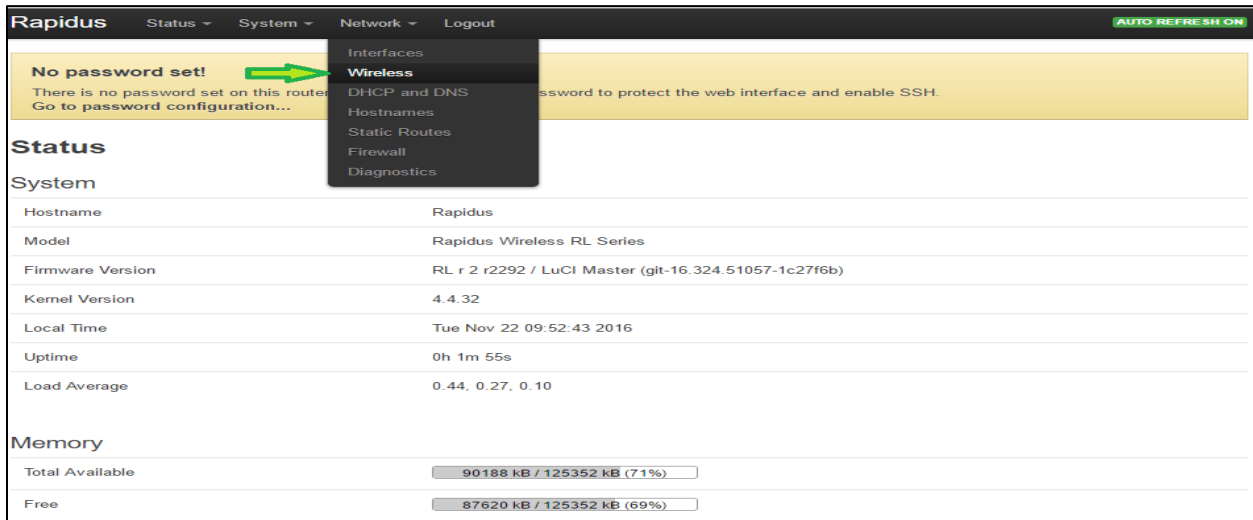
CLIENT (STATION)

CONFIGURATION CLIENT HOW-TO

Configuring Client Access

Here we will guide you through the process of configuring your device into a Client (station). Be aware that certain settings have to align with your AP configured device, so that communication between the two devices can function.

To get started login to your device and select “Wireless” from the drop-down “Network” tab.

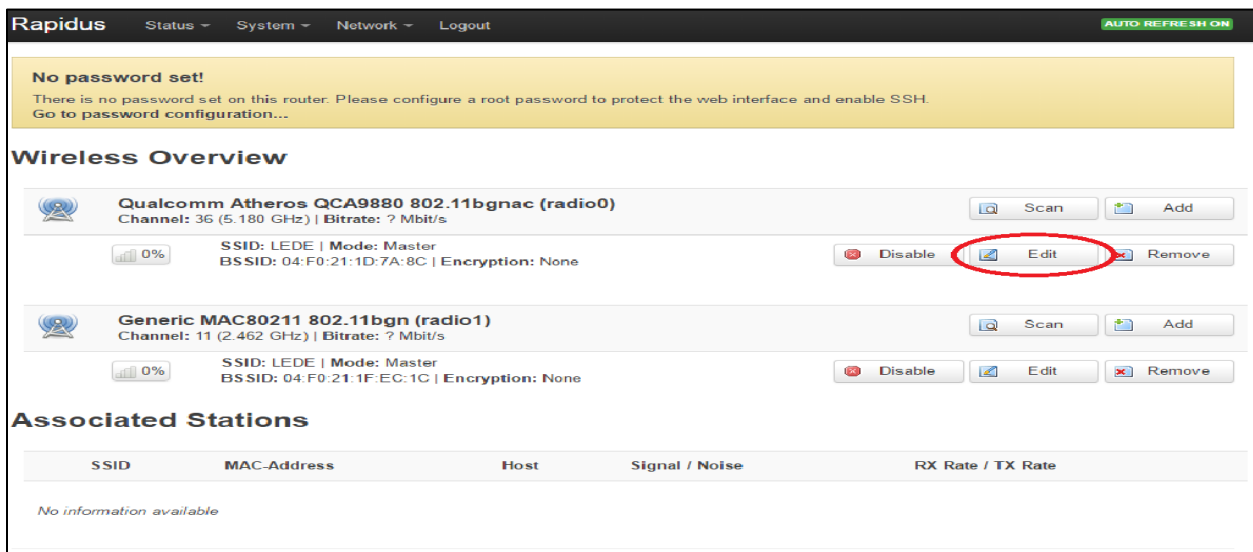


The screenshot shows the Rapidus web interface. At the top, there is a navigation bar with 'Status', 'System', 'Network', and 'Logout'. A dropdown menu is open under 'Network', showing options: 'Interfaces', 'Wireless', 'DHCP and DNS', 'Hostnames', 'Static Routes', 'Firewall', and 'Diagnostics'. The 'Wireless' option is highlighted. Below the navigation bar, there is a yellow banner with the text 'No password set! There is no password set on this router. Please configure a root password to protect the web interface and enable SSH. Go to password configuration...'. The main content area is divided into sections: 'Status', 'System', and 'Memory'. The 'System' section contains a table with the following data:

System	Value
Hostname	Rapidus
Model	Rapidus Wireless RL Series
Firmware Version	RL r 2 r2292 / LuCI Master (git-16.324.51057-1c27f6b)
Kernel Version	4.4.32
Local Time	Tue Nov 22 09:52:43 2016
Uptime	0h 1m 55s
Load Average	0.44, 0.27, 0.10

The 'Memory' section shows two bars: 'Total Available' at 90188 kB / 125352 kB (71%) and 'Free' at 87620 kB / 125352 kB (69%).

From here you will select the radio for which you will be using for your Client (station). The radio you choose here will depend on which radio you have chosen to make as your AP. Be sure when choosing which radio to use for your Client (station) that it is on the same frequency as the radio you configured for your AP device. (ei. If your AP device is operating in 5.8GHz then your Client (station) must also operate in 5.8GHz)



The screenshot shows the Rapidus web interface with the 'Wireless Overview' section. It displays two radio configurations:

- Qualcomm Atheros QCA9880 802.11bgnac (radio0)**: Channel: 36 (5.180 GHz) | Bitrate: ? Mbit/s. SSID: LEDE | Mode: Master | BSSID: 04:F0:21:1D:7A:8C | Encryption: None. Buttons: Disable, Edit, Remove.
- Generic MAC80211 802.11bgn (radio1)**: Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s. SSID: LEDE | Mode: Master | BSSID: 04:F0:21:1F:EC:1C | Encryption: None. Buttons: Disable, Edit, Remove.

The 'Edit' button for the first radio is circled in red. Below the radio configurations is the 'Associated Stations' section, which is currently empty with the text 'No information available'.

When you are directed to the following page you will need to select the same “**Width**” as so it matches the AP you will be trying to communicate with. (ei. If your AP “**Width**” is set to 40Ghz then your Client (station) “**Width**” must be set to 40GHz as well)

Scroll down the page to the “**Interface Configuration**” section. Here you will type in the same “**ESSID**” name as you used for the AP that you want to connect to (ei. if your AP “**ESSID**” is Sample1 then your Client (station) “**ESSID**” must be Sample1). You must also change the “**Mode**” to “**Client (WDS)**” in the drop-down menu. Be sure to click “**Save & Apply**” before you leave this page. Note: ESSID is case sensitive.

You have now completed the step for setting up a Client (station). . If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

ROUTER

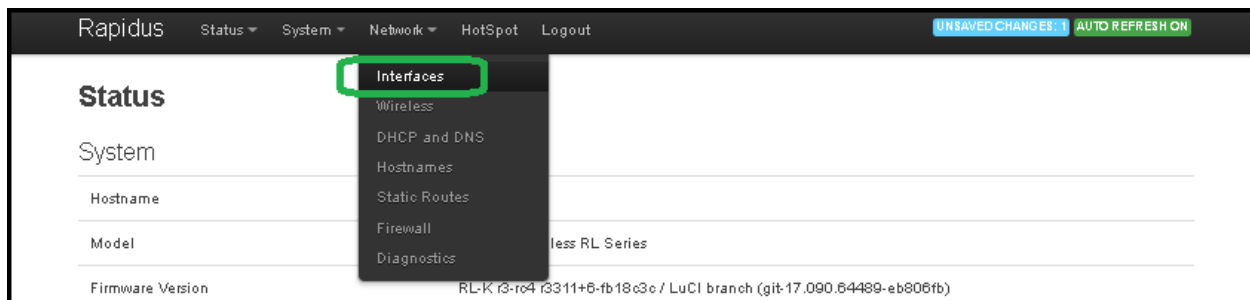
CONFIGURATION FOR ROUTER HOW-TO

The Rapidus Wireless RL-series model devices are factory set to default bridge AP. In this How-To manual we will go through the process of changing your device from a bridge AP into a Router. The following steps for configuring your product are for devices that are already in default mode or have been reset to default.

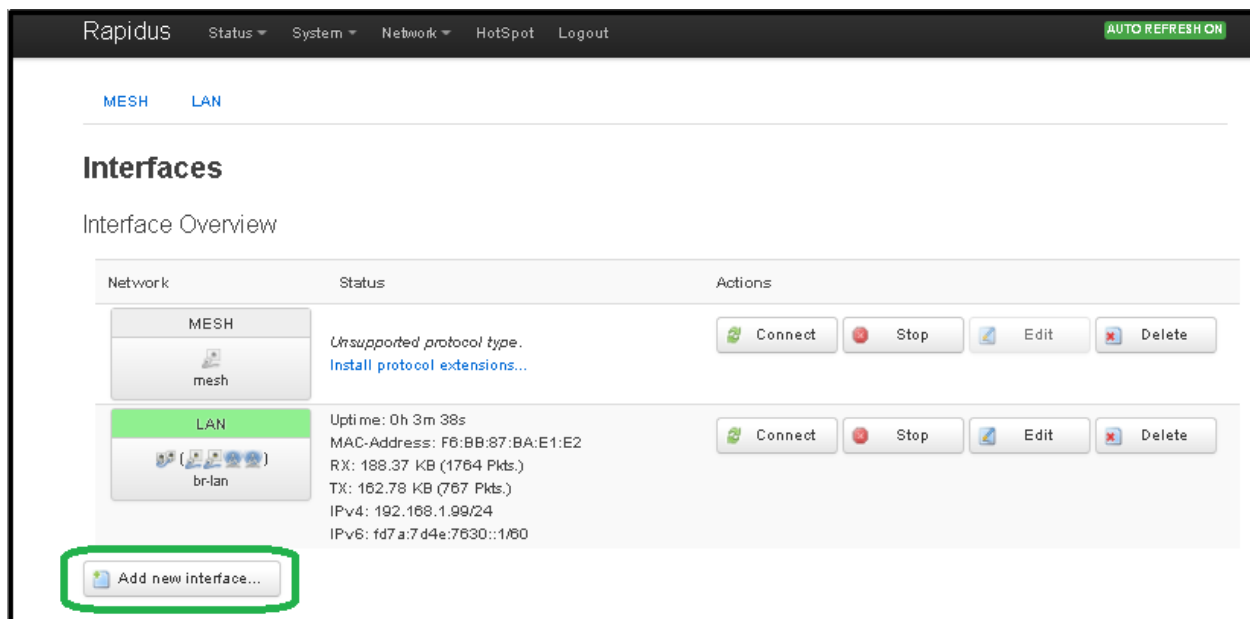
NOTE: Before you start you should have a plan outlined of which IP addresses you will be using in your network to be set for your router.

Setting Device to Router Mode

To begin you must first navigate to “**Interfaces**” in the drop down menu under “**Network**”.



Once directed to the following page you will need to create a new interface by clicking “**Add new interface...**”.



You will first need to name your new interface (for our example we will name our interface “wan”). And select “**Custom Interface**” under the “**Cover the following interface**” options and type “**none**” in the available box. Click “**Submit**” once you’re done.

Create Interface

Name of the new interface:

Note: interface name length: Maximum length of the name is 15 characters including the automatic protocol/bridge prefix (br, bin4, pppoe- etc.)

Protocol of the new interface:

Create a bridge over multiple interfaces: ☐

Cover the following interface:

- ☐ Ethernet Adapter: "eth0" (lan)
- ☐ Ethernet Adapter: "eth1" (lan)
- ☐ Ethernet Adapter: "teql0"
- ☐ Wireless Network: Master "LEDE" (lan)
- ☐ Wireless Network: Master "LEDE" (lan)
- ☒ Custom Interface:

[Back to Overview](#) [Submit](#)

Navigate back to “**Firewall**” in the drop down menu for “**Network**”.

Network dropdown menu:

- Interfaces
- Wireless
- DHCP and DNS
- Hostnames
- Static Routes
- Firewall**
- Diagnostics

Interfaces - WAN

On this page you can configure the network interfaces separated by space. You can create several interfaces by ticking the "bridge interfaces" field and enter the names of several interfaces separated by space. You can also create a virtual interface (e.g.: eth0.1).

Common Configuration:

- General Setup
- Advanced Settings
- Physical Settings
- Firewall Settings

Scroll down the page to the “**Zones**” sections and click the “**Edit**” button for “**wan**”.

Rapidus
Status
System
Network
HotSpot
Logout
UNSAVED CHANGES

General Settings
Port Forwards
Traffic Rules
Custom Rules

Firewall - Zone Settings

The firewall creates zones over your network interfaces to control network traffic flow.

General Settings

Enable SYN-flood protection ☒

Drop invalid packets ☐

Input

Output

Forward

Zones

Zone → Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
lan: lan: → wan	<input type="text" value="accept"/>	<input type="text" value="accept"/>	<input type="text" value="accept"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete
wan: wan: → REJECT	<input type="text" value="reject"/>	<input type="text" value="accept"/>	<input type="text" value="reject"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Edit Delete

[Add](#)

Save & Apply
Save
Reset

Under the “**General Settings**” tab change the settings for “**input**” to “**accept**” and also change the settings for “**Forward**” to “**accept**” as well. Scroll down the page, under “**Inter-Zone Forwarding**” select “**Lan**” for both “**Allow forward to destination zones:**” and “**Allow forward from destination source zones:**”. Click “**Save & Apply**” once you have made these changes and before you move away from this page.

Rapidus
Status ▾
System ▾
Network ▾
HotSpot
Logout
UNSAVED CHANGES 3

General Settings
Port Forwards
Traffic Rules
Custom Rules

Firewall - Zone Settings - Zone "wan"

Zone "wan"

This section defines common properties of "wan". The *input* and *output* options set the default policies for traffic entering and leaving this zone while the *forward* option describes the policy for forwarded traffic between different networks within the zone. Covered networks specifies which available networks are members of this zone.

General Settings
Advanced Settings

Name
wan

Input
accept

Output
accept

Forward
accept

Masquerading
☒

MSS clamping
☒

Covered networks
☐ lan:
☐ mesh: (no interfaces attached)
☒ wan:
☐ create:

Inter-Zone Forwarding

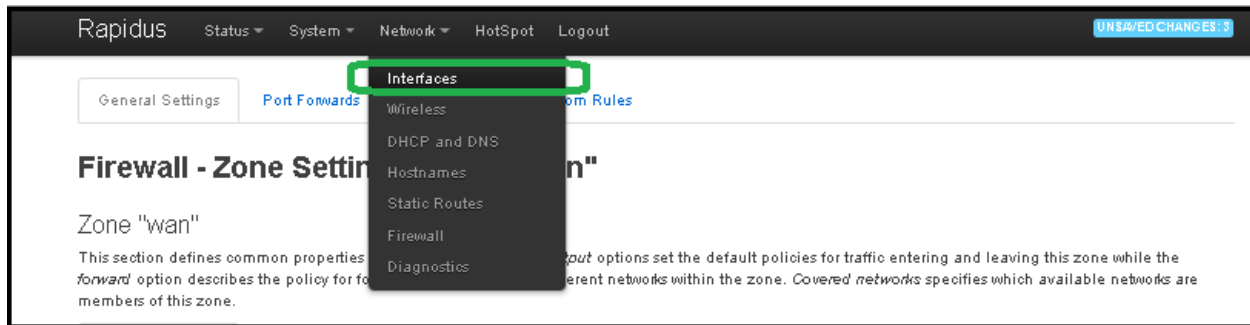
The options below control the forwarding policies between this zone (wan) and other zones. *Destination zones* cover forwarded traffic originating from "wan". *Source zones* match forwarded traffic from other zones targeted at "wan". The forwarding rule is *unidirectional*, e.g. a forward from lan to wan does not imply a permission to forward from wan to lan as well.

Allow forward to destination zones:
☒ lan:

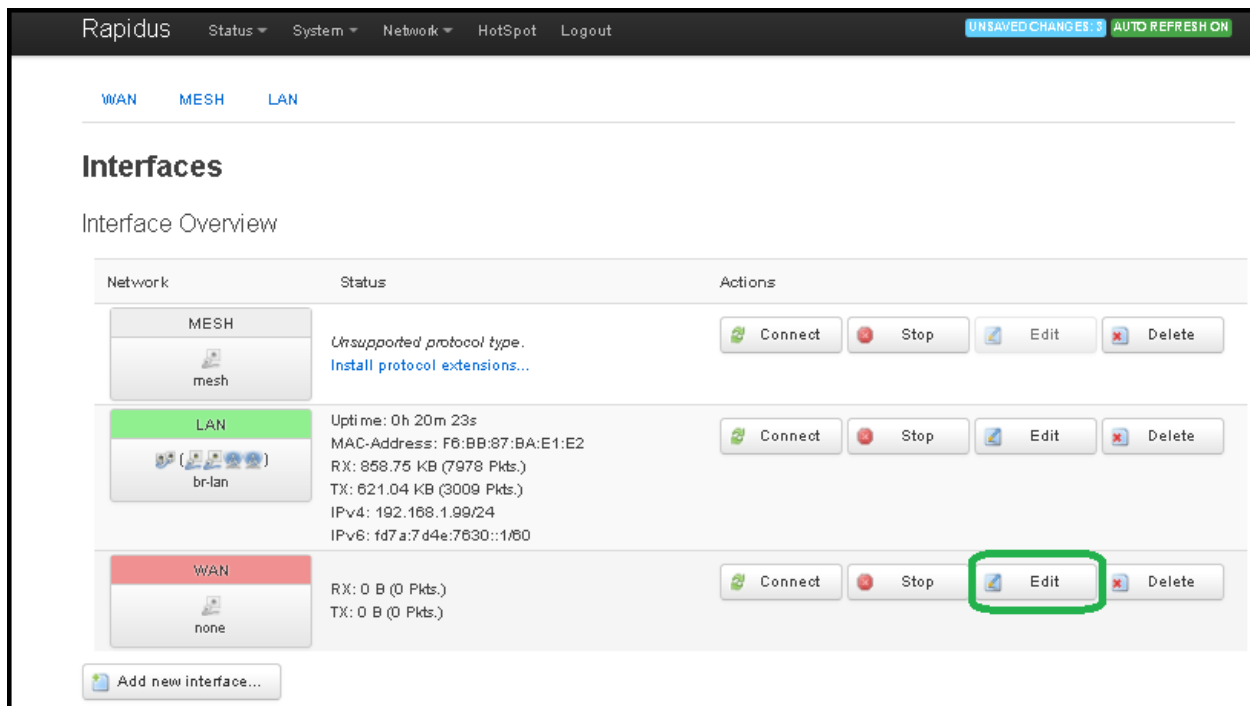
Allow forward from source zones:
☒ lan:

Back to Overview
Save & Apply
Save
Reset

Navigate back to the Interface page by clicking “**Interfaces**” in the drop down menu of “**Network**”.



When you arrive at the Interfaces page, under “**Interfaces Overview**” click “**Edit**” for the “**WAN**” interface to edit the network zone.



Under the “General Setup” tab for “Common Configuration” change the “Protocol” option to “Static Address” and click “Switch protocol”.

Rapidus
Status
System
Network
HotSpot
Logout
AUTO REFRESH ON

WAN
MESH
LAN


Interfaces - WAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup

Status




none

RX: 0 B (0 Pkts.)
TX: 0 B (0 Pkts.)

Protocol

Static address

Really switch protocol?

 Switch protocol

Back to Overview

Save & Apply

Save

Reset

Enter in the IP, netmask, gateway and DNS server addresses that you will be using to for your network. Click “Save” once done.
(Refer to your IP address outlined plan for your required needs as to which IP addresses to use to connect back to your network)

Rapidus
Status
System
Network
HotSpot
Logout
UNSAVED CHANGES
AUTO REFRESH ON

Interfaces - WAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup
Advanced Settings
Physical Settings
Firewall Settings

Status

none

RX: 0 B (0 Pkts.)
TX: 0 B (0 Pkts.)

Protocol
Static address

IPv4 address
192.168.123.54

IPv4 netmask
255.255.255.0

IPv4 gateway
192.168.123.1

IPv4 broadcast

Use custom DNS servers
192.168.123.1

IPv6 assignment length
disabled

Assign a part of given length of every public IPv6-prefix to this interface

IPv6 address

IPv6 gateway

IPv6 routed prefix

Public prefix routed to this device for distribution to clients.

DHCP Server

General Setup
IPv6 Settings

Ignore interface
☒
Disable DHCP for this interface.

Back to Overview
Save & Apply
Save
Reset

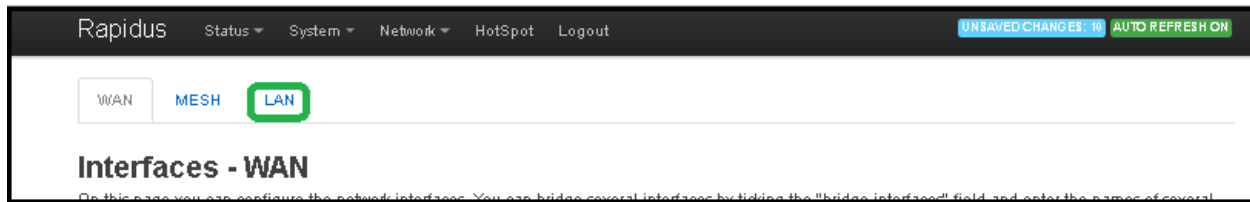
Next click the “Physical Settings” tab under “Common Configuration”.

The screenshot shows the Rapidus web interface. At the top, there's a navigation bar with 'Rapidus', 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. On the right, there are buttons for 'UNSAVED CHANGES' and 'AUTO REFRESH ON'. Below the navigation bar, there are tabs for 'WAN', 'MESH', and 'LAN'. The main heading is 'Interfaces - WAN'. Below this, there's a description: 'On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1)'. Under 'Common Configuration', there are four tabs: 'General Setup', 'Advanced Settings', 'Physical Settings' (which is highlighted with a green box), and 'Firewall Settings'. At the bottom, there's a status section showing 'Status', 'none', and RX/TX statistics.

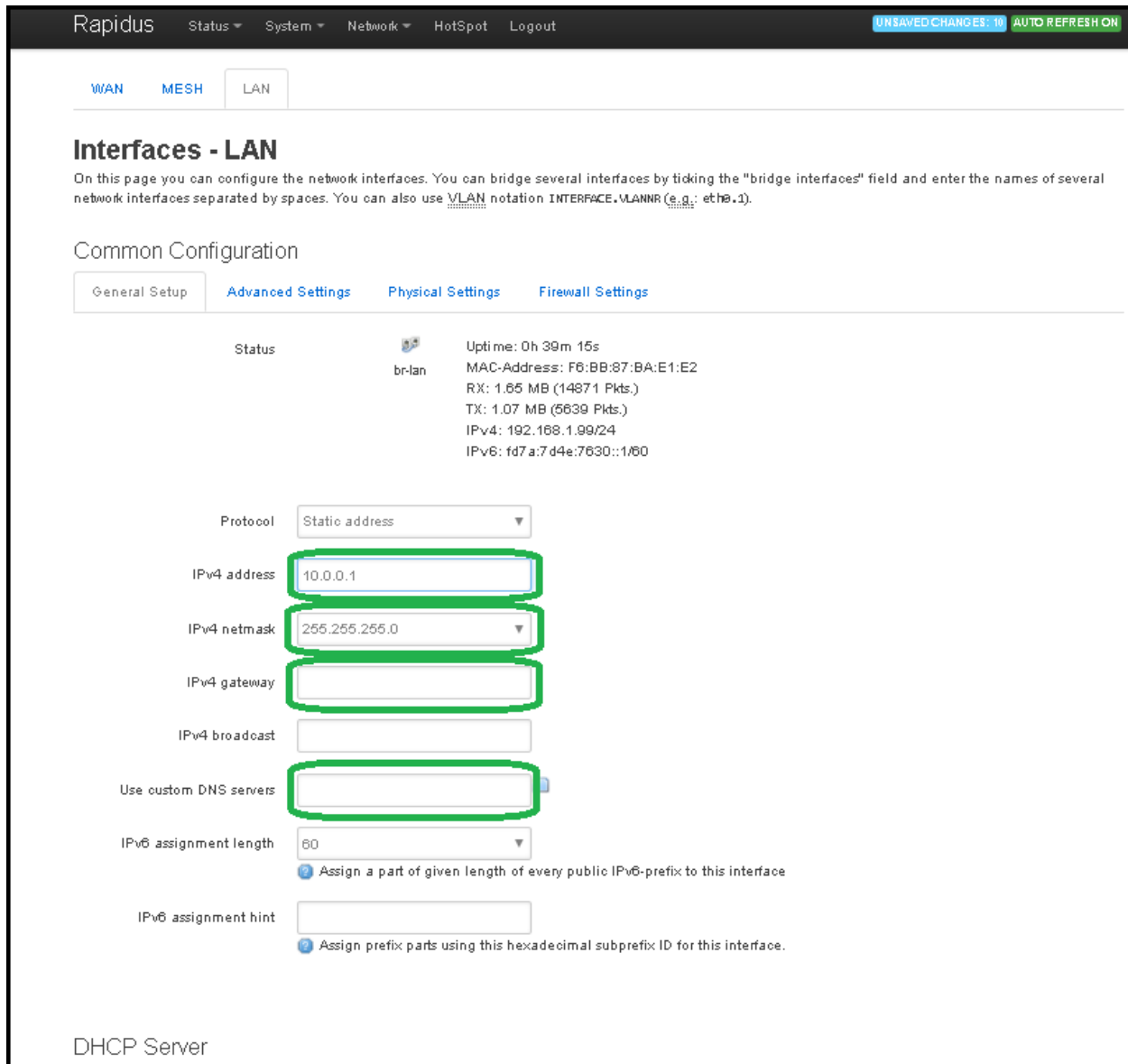
In the “Physical Settings” tab, select “Bridge Interfaces” and for the “Interface” options select both “Ethernet Adapter: eth0 and eth1”. Then unselect “Ethernet Adapter: none” and click “Save”.

This screenshot shows the 'Physical Settings' tab in the 'Interfaces - WAN' section. The 'Bridge interfaces' checkbox is checked and highlighted with a green box. Below it, the 'Enable STP' checkbox is unchecked. Under the 'Interface' section, the checkboxes for 'Ethernet Adapter: "eth0" (lan)' and 'Ethernet Adapter: "eth1" (lan)' are checked and highlighted with green boxes. The checkbox for 'Ethernet Adapter: "none" (wan)' is unchecked and highlighted with a red box. Other interface options like 'Ethernet Adapter: "teq10"', 'Wireless Network: Master "LEDE" (lan)', and 'Custom Interface' are also listed. Below this, there's a 'DHCP Server' section with 'General Setup' and 'IPv6 Settings' tabs. The 'Ignore interface' checkbox is checked. At the bottom, there are buttons for 'Back to Overview', 'Save & Apply', 'Save' (highlighted with a green box), and 'Reset'.

At the top of the page click the “**LAN**” tab to edit the network zone for LAN.



Edit the addresses under the “**General Setup**” tab. (Refer to your IP address outline plan for your required needs as to which IP addresses you will use for your networking)



Unselect “Ignore interface” to enable DHCP. And click “Save”.

DHCP Server

General Setup **Advanced Settings** IPv6 Settings

Ignore interface ☒ Disable DHCP for this interface.

Start
Lowest leased address as offset from the network address.

Limit
Maximum number of leased addresses.

Leasetime
Expiry time of leased addresses, minimum is 2 minutes (2m).

[Back to Overview](#) [Save & Apply](#) **Save** [Reset](#)

Scroll back up the page and click the “Physical Settings” tab.

Rapidus Status System Network HotSpot Logout **UNSAVED CHANGES: 15** **AUTO REFRESH ON**

WAN MESH **LAN**

Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

Common Configuration

General Setup **Advanced Settings** **Physical Settings** Firewall Settings

In the “Physical Settings” tab under the “Interface” options unselect both “Ethernet Adapter: eth0 and eth1”. Once you have done so click “Save & Apply”.

Rapidus
Status
System
Network
HotSpot
Logout
UNSAVED CHANGES: 15
AUTO REFRESH ON

WAN
MESH
LAN

Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup
Advanced Settings
Physical Settings
Firewall Settings

Bridge interfaces
☒
creates a bridge over specified interface(s)

Enable STP
☐
Enables the Spanning Tree Protocol on this bridge

Interface
☐ Ethernet Adapter: "eth0" (lan, wan)
☐ Ethernet Adapter: "eth1" (lan, wan)
☐ Ethernet Adapter: "teql0"
☒ Wireless Network: Master "LEDE" (lan)
☒ Wireless Network: Master "LEDE" (lan)
☐ Custom Interface:

DHCP Server

General Setup
Advanced Settings
IPv6 Settings

Ignore interface
☐
Disable DHCP for this interface.

Start
100
Lowest leased address as offset from the network address.

Limit
150
Maximum number of leased addresses.

Leasetime
12h
Expiry time of leased addresses, minimum is 2 minutes (2m).

Back to Overview
Save & Apply
Save
Reset

You will need to reboot your device for your changes to be taken into effect. Click “**Reboot**” from the drop down menu of the “**System**” tab at the top of the page.



Your device is now configured to operate in router mode. If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

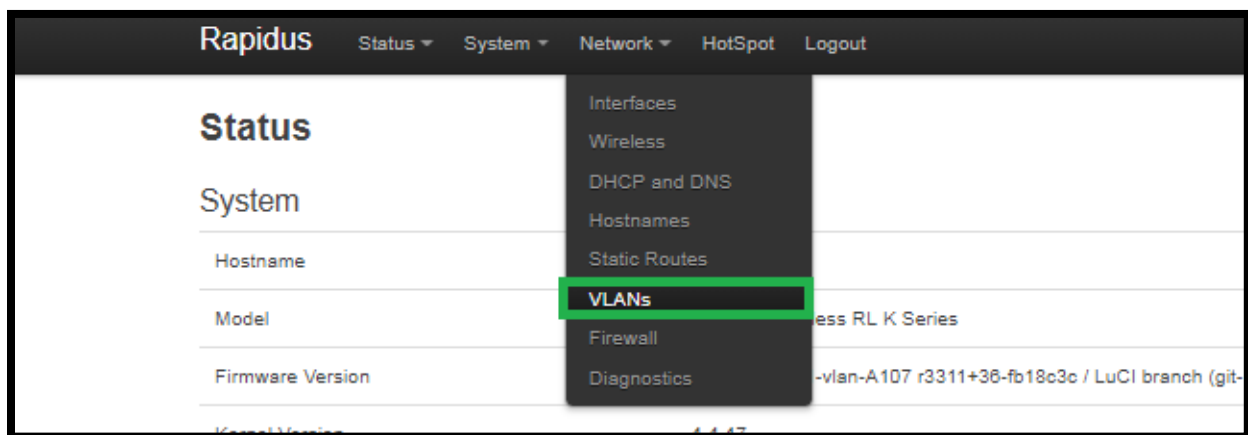
VLAN

CONFIGURING VLAN HOW-TO

A virtual LAN (VLAN) allows network administrators to group host together even if the hosts are not directly connected to the same network switch. This can greatly simplify network design and deployment. A VLAN could be used to separate traffic within a business due to users, and due to network administrators, or between types of traffic, so that users or low priority traffic cannot directly affect the rest of the network's functioning.

Configuring VLAN Settings

To begin navigate to the VLAN configuration page by clicking the “Network” Tab and selecting the “VLANs” in the drop down menu.



Once directed to the following page you will be able to configure your VALNs using the following sections. Configure **Management**: to restrict access to the current device to hosts on the configured VLAN ID, **WiFi Data**: to use the configured VLAN ID for Wi-Fi traffic and **Tiered WiFi access**: to use configured VLAN IDs for tiered access to your network from the WiFi interface.

Management VLAN

Under “**Management**” click the checkbox to enable the management VLAN, then enter the VLAN ID used for the management VLAN on your network. Optionally, you may edit the description box.

Note: When enabled, the internal changes in the unit are immediate, so the unit will subsequently only be accessible on the management VLAN. Be ready with a VLAN switch which handles the management VLAN ID. Plug the Ethernet cable from the unit into the trunk port, and your PC into the access port.

Then click “**Save & Apply**” to commit the configuration.

Rapidus

Status ▾ System ▾ Network ▾ HotSpot Logout

VLANS

These tables specify how this device's interfaces participate in your network's VLANs.

Below are some pre-configured VLANs for common use cases, and an Advanced section for special cases.

Note: the WiFi Data and Tiered WiFi use cases are mutually exclusive and can't both be enabled.

The descriptions are for notational purposes, and aren't used in VLAN operation

Management

Use this to restrict access to this device to hosts on the configured VLAN id.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
management	<input checked="" type="checkbox"/>	99	trunk	trunk	trunk	trunk	trunk	trunk	trunk

WiFi Data

Use the configured VLAN id for Wi-Fi traffic

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-data	<input type="checkbox"/>	100	trunk	access	access	access	access	access	access

Tiered WiFi access

Use these configured VLAN ids for tiered access to your network from the WiFi interfaces.

For example, the descriptions of a corporate 2-tiered scheme might be "staff" and "guests", or a university 3-tiered scheme might be "administrators", "teachers" and "students".

Note: the additional virtual APs must be set up first

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-tier1	<input type="checkbox"/>	100	trunk	access	access	ignore	ignore	ignore	ignore
wifi-tier2	<input type="checkbox"/>	200	trunk	ignore	ignore	access	access	ignore	ignore
wifi-tier3	<input type="checkbox"/>	300	trunk	ignore	ignore	ignore	ignore	access	access

Advanced

Use this to configure vlans for new use cases.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
This section contains no values yet									

Add

Save & Apply

Save

Reset

WiFi Data VLAN

Click the checkbox to enable the Data VLAN and then enter the VLAN ID used for the data VLAN on your network. Optionally, you may edit the description box. Once you've done so click **"Save & Apply"** to commit the configuration.

Rapidus
Status
System
Network
HotSpot
Logout

VLANs

These tables specify how this device's interfaces participate in your network's VLANs.

Below are some pre-configured VLANs for common use cases, and an Advanced section for special cases.

Note: the WiFi Data and Tiered WiFi use cases are mutually exclusive and can't both be enabled. The descriptions are for notational purposes, and aren't used in VLAN operation

Management

Use this to restrict access to this device to hosts on the configured VLAN id.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
management	<input type="checkbox"/>	99	trunk	trunk	trunk	trunk	trunk	trunk	trunk

WiFi Data

Use the configured VLAN id for Wi-Fi traffic

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-data	<input checked="" type="checkbox"/>	100	trunk	access	access	access	access	access	access

Tiered WiFi access

Use these configured VLAN ids for tiered access to your network from the WiFi interfaces.

For example, the descriptions of a corporate 2-tiered scheme might be "staff" and "guests", or a university 3-tiered scheme might be "administrators", "teachers" and "students".

Note: the additional virtual APs must be set up first

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-tier1	<input type="checkbox"/>	100	trunk	access	access	ignore	ignore	ignore	ignore
wifi-tier2	<input type="checkbox"/>	200	trunk	ignore	ignore	access	access	ignore	ignore
wifi-tier3	<input type="checkbox"/>	300	trunk	ignore	ignore	ignore	ignore	access	access

Advanced

Use this to configure vlans for new use cases.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
This section contains no values yet									

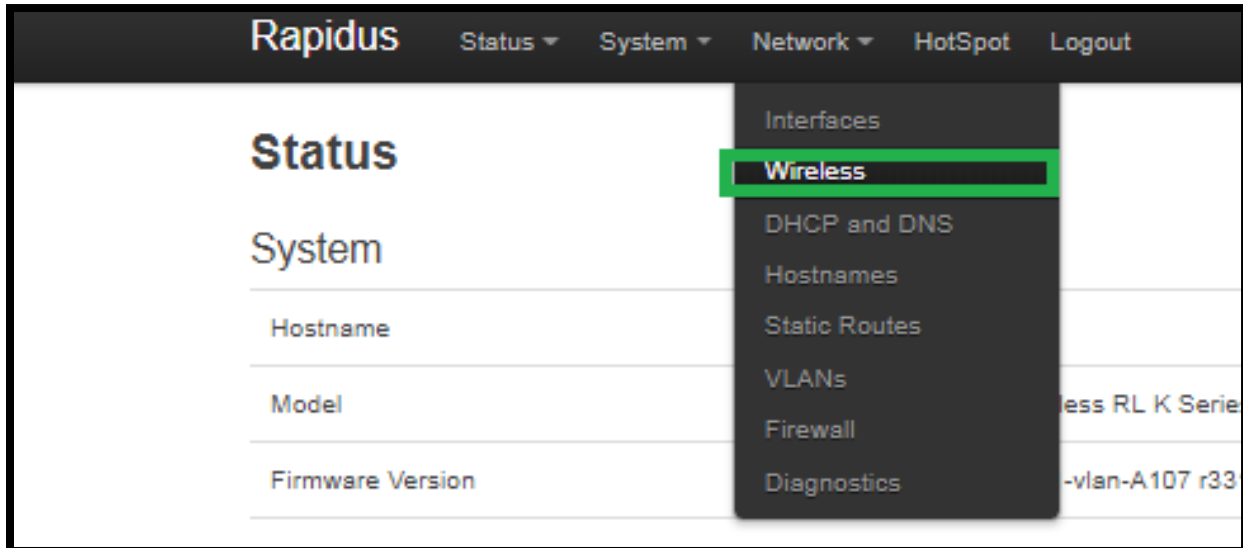
Add

Save & Apply
Save
Reset

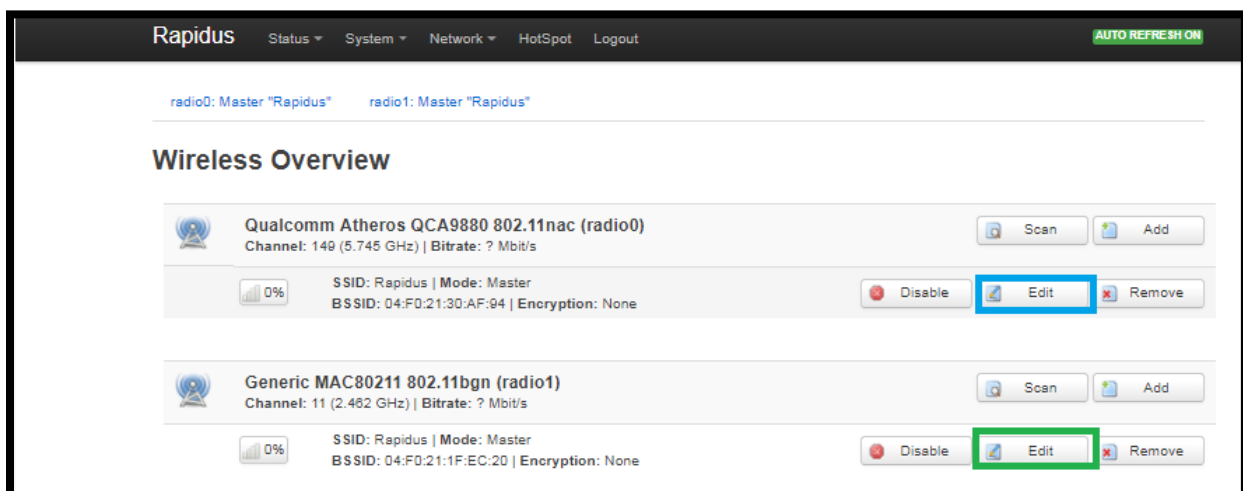
Tiered WiFi access VLAN(s)

Up to 3 tiers can be configured in Tiered WiFi access. Each tier consists of 2G and 5G APs that can be configured on the Wireless page and a corresponding VLAN configured on the VLAN page. For the first tier, the default APs are used. For the second and 3rd tiers, additional 2G/5G APs are added to the 2G and 5G radios on the wireless page.

You will first need to configure the APs. Navigate to the Wireless configuration page by selecting the “Network” tab and clicking “Wireless” in the drop down menu.



Once directed to the following page. For each of the 2G and 5G default APs, navigate to editing the wireless setting by clicking “Edit”



Note: The internal names of the APs are circled in Orange. They are the names shown on the VLAN page.

The default APs are named wlan0 and wlan1, the second tier APs will be named wlan0-1 and wlan1-1, and the 3rd wlan0-2 and wlan1-2.

Edit the radio and AP settings as required. Be aware that the SSID can be the same for 2G and 5G APs in the same tier, but must be different for each tier. Make sure the checkbox for **“Separate Clients”** is **selected**. Click **“Save”** before you continue.

The screenshot displays the Rapidus web interface for configuring the Master "Rapidus" (wlan0) wireless network. The interface is divided into two main sections: Device Configuration and Interface Configuration.

Device Configuration:

- General Setup:** Wireless network is enabled. A "Disable" button is present.
- Operating frequency:** Mode is set to AC. Channel is 49 (5745 MHz). Width is 40 MHz.
- Transmit Power:** Set to auto.

Interface Configuration:

- General Setup:** ESSID is Rapidus. Mode is Access Point.
- Wireless Security:** Network is checked. lan: is selected. mesh: (no interfaces attached) is unchecked. wan: is unchecked. create: is empty.
- MAC-Filter:** Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.
- Advanced Settings:** Hide ESSID is unchecked. WMM Mode is checked. Separate Clients is checked. Prevents client-to-client communication.

At the bottom, there are buttons for "Back to Overview", "Save & Apply", "Save", and "Reset". The "Save" button is highlighted.

Then set the wireless security and click “Save & Apply” to commit the wireless settings.

Rapidus
Status
System
Network
HotSpot
Logout

radio0: Master "Rapidus"
radio1: Master "Rapidus"

Wireless Network: Master "Rapidus" (wlan0)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

Device Configuration

General Setup
Advanced Settings

Wireless network is enabled Disable

Operating frequency

Mode	Channel	Width
AC	149 (5745 MHz)	40 MHz

Transmit Power

auto

dBm

Interface Configuration

General Setup
Wireless Security
MAC-Filter
Advanced Settings

Encryption

No Encryption

Back to Overview
Save & Apply
Save
Reset

Navigate back to the wireless configuration page by selecting the “**Network**” tab and clicking “**Wireless**” in the drop down menu. For each of the 2nd and 3rd tier, and for each of the 2G and 5G radios, click “**Add**” to add another AP.

The screenshot shows the 'Wireless Overview' page in the Rapidus interface. At the top, there's a navigation bar with 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. Below this, there's a header with 'radio0: Master "Rapidus"' and 'radio1: Master "Rapidus"'. The main content area is titled 'Wireless Overview' and contains two radio entries. The first entry is 'Qualcomm Atheros QCA9880 802.11nac (radio0)' with channel 149 (5.745 GHz) and bitrate ? Mbit/s. It has an 'Add' button highlighted with a green box. The second entry is 'Generic MAC80211 802.11bgn (radio1)' with channel 11 (2.462 GHz) and bitrate ? Mbit/s. It also has an 'Add' button highlighted with a green box. Both entries have 'Disable', 'Edit', and 'Remove' buttons.

Note: While adding and configuring the additional APs, a temporary name is used (circled in Orange). The APs will get the permanent names mentioned earlier (page 35).

Under the “**Interface Configuration**” section, in the “**General Setup**” tab, set the mode to **Access Point**. The page will change to the AP settings format, edit as required as described earlier for the first tier APs.

The screenshot shows the 'Wireless Network: Master "OpenWrt" (radio0.network3)' configuration page. The top navigation bar includes 'Status', 'System', 'Network', 'HotSpot', and 'Logout'. Below this, there's a header with 'radio0: Master "OpenWrt"', 'radio0: Master "Rapidus"', 'radio1: Master "Rapidus"', and 'radio0: Master "OpenWrt"'. The main content area is titled 'Wireless Network: Master "OpenWrt" (radio0.network3)' and has a description: 'The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.' Below this, there's a 'Device Configuration' section with tabs for 'General Setup' and 'Advanced Settings'. The 'General Setup' tab is active, showing settings for 'Wireless network is enabled' (with a 'Disable' button), 'Operating frequency' (with 'Mode' set to 'AC', 'Channel' set to '149 (5745 MHz)', and 'Width' set to '40 MHz'), and 'Transmit Power' (set to 'auto'). Below this, there's an 'Interface Configuration' section with tabs for 'General Setup', 'Wireless Security', and 'Advanced Settings'. The 'General Setup' tab is active, showing 'ESSID' set to 'OpenWrt', 'Mode' set to 'Access Point' (highlighted with a green box), and 'BSSID' set to 'Client'.

When finished, the **Wireless Overview** page should appear like this.

Wireless Overview

Qualcomm Atheros QCA9880 802.11nac (radio0)
Channel: 149 (5.745 GHz) | Bitrate: ? Mbit/s

Signal	SSID	Mode	BSSID	Encryption	Actions
0%	tier1	Master	04:F0:21:30:AF:94	None	Disable Edit Remove
0%	tier2	Master	06:F0:21:30:AF:94	None	Disable Edit Remove
0%	tier3	Master	02:F0:21:30:AF:94	None	Disable Edit Remove

Generic MAC80211 802.11bgn (radio1)
Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s

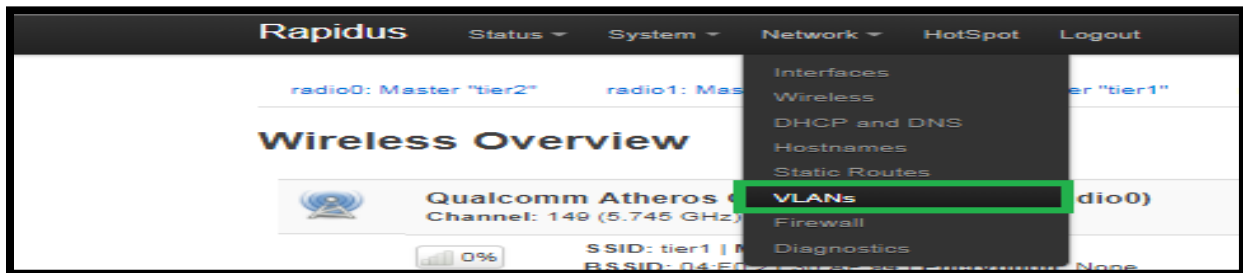
Signal	SSID	Mode	BSSID	Encryption	Actions
0%	tier1	Master	04:F0:21:1F:EC:20	None	Disable Edit Remove
0%	tier2	Master	06:F0:21:1F:EC:20	None	Disable Edit Remove
0%	tier3	Master	02:F0:21:1F:EC:20	None	Disable Edit Remove

The internal names of the APs can be verified by re-accessing the edit page for the AP.

Wireless Network: Master "tier3" (wlan1-2)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface*

Navigate back to the VLAN page by clicking the “Network” Tab and selecting the “VLANs” in the drop down menu.



Click the checkbox to enable the “WiFi Tiered access” VLANs, then enter the VLANs used on your network for that tier. Optionally, edit the description box, then click “Save & Apply” to commit the configuration.

The screenshot shows the 'VLANs' configuration page in the Rapidus web interface. The page has a dark header with 'Rapidus' and navigation links. The main content area is titled 'VLANs' and includes a description of the tables. Below this is the 'Management' section, which has a table for configuring VLANs for various interfaces. The 'wlan0' and 'wlan1' columns are highlighted with an orange box. Below the 'Management' section is the 'WiFi Data' section, which has a table for configuring VLANs for WiFi traffic. The 'wlan0' and 'wlan1' columns are highlighted with an orange box. Below the 'WiFi Data' section is the 'Tiered WiFi access' section, which has a table for configuring VLANs for tiered access. The 'wlan0' and 'wlan1' columns are highlighted with an orange box. Below the 'Tiered WiFi access' section is the 'Advanced' section, which is currently empty. At the bottom right, there is a 'Save & Apply' button highlighted with a green box, along with 'Save' and 'Reset' buttons.

VLANs
These tables specify how this device's interfaces participate in your network's VLANs.
Below are some pre-configured VLANs for common use cases, and an Advanced section for special cases.
Note: the WiFi Data and Tiered WiFi use cases are mutually exclusive and can't both be enabled.
The descriptions are for notational purposes, and aren't used in VLAN operation

Management
Use this to restrict access to this device to hosts on the configured VLAN id.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
management	<input type="checkbox"/>	99	trunk	trunk	trunk	trunk	trunk	trunk	trunk

WiFi Data
Use the configured VLAN id for Wi-Fi traffic

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-data	<input type="checkbox"/>	100	trunk	access	access	access	access	access	access

Tiered WiFi access
Use these configured VLAN ids for tiered access to your network from the WiFi interfaces.
For example, the descriptions of a corporate 2-tiered scheme might be "staff" and "guests", or a university 3-tiered scheme might be "administrators", "teachers" and "students".
Note: the additional virtual APs must be set up first

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-tier1	<input type="checkbox"/>	100	trunk	access	access	ignore	ignore	ignore	ignore
wifi-tier2	<input type="checkbox"/>	200	trunk	ignore	ignore	access	access	ignore	ignore
wifi-tier3	<input type="checkbox"/>	300	trunk	ignore	ignore	ignore	ignore	access	access

Advanced
Use this to configure vlans for new use cases.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
This section contains no values yet									

Note: This page uses the internal names (circled in Orange), to refer the APs.

Your device is now configured to operate in VLANs. If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.

To reset, just the VLANs settings to the default of disabled, but keep all other settings intact. Uncheck all the enable boxes and then click “Save & Apply”.

Rapidus
Status
System
Network
HotSpot
Logout

VLANs

These tables specify how this device's interfaces participate in your network's VLANs.

Below are some pre-configured VLANs for common use cases, and an Advanced section for special cases.
Note: the WiFi Data and Tiered WiFi use cases are mutually exclusive and can't both be enabled.
The descriptions are for notational purposes, and aren't used in VLAN operation

Management

Use this to restrict access to this device to hosts on the configured VLAN id.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
management	<input checked="" type="checkbox"/>	99	trunk	trunk	trunk	trunk	trunk	trunk	trunk

WiFi Data

Use the configured VLAN id for Wi-Fi traffic

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-data	<input checked="" type="checkbox"/>	100	trunk	access	access	access	access	access	access

Tiered WiFi access

Use these configured VLAN ids for tiered access to your network from the WiFi interfaces.
For example, the descriptions of a corporate 2-tiered scheme might be "staff" and "guests", or a university 3-tiered scheme might be "administrators", "teachers" and "students".
Note: the additional virtual APs must be set up first

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
wifi-tier1	<input checked="" type="checkbox"/>	100	trunk	access	access	ignore	ignore	ignore	ignore
wifi-tier2	<input checked="" type="checkbox"/>	200	trunk	ignore	ignore	access	access	ignore	ignore
wifi-tier3	<input checked="" type="checkbox"/>	300	trunk	ignore	ignore	ignore	ignore	access	access

Advanced

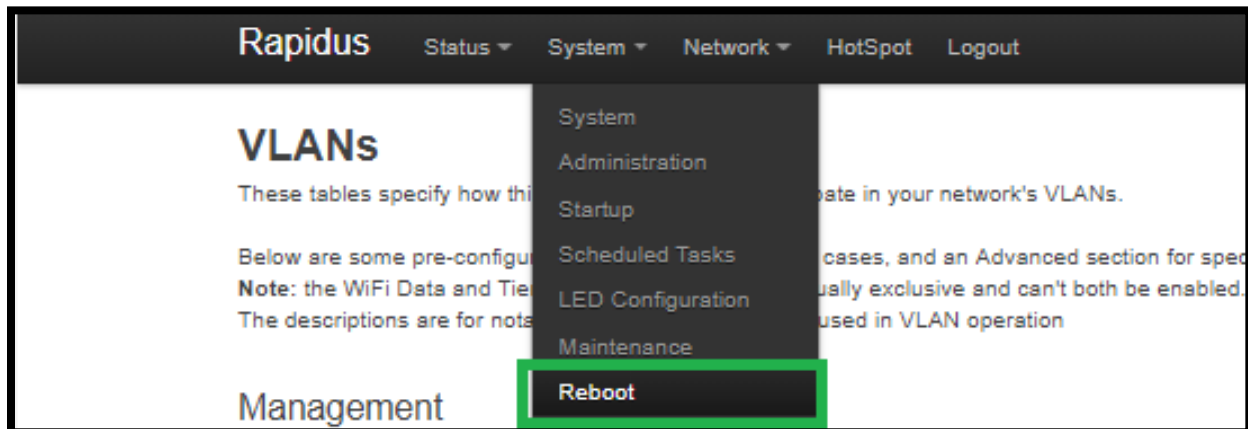
Use this to configure vlans for new use cases.

Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-2
This section contains no values yet									

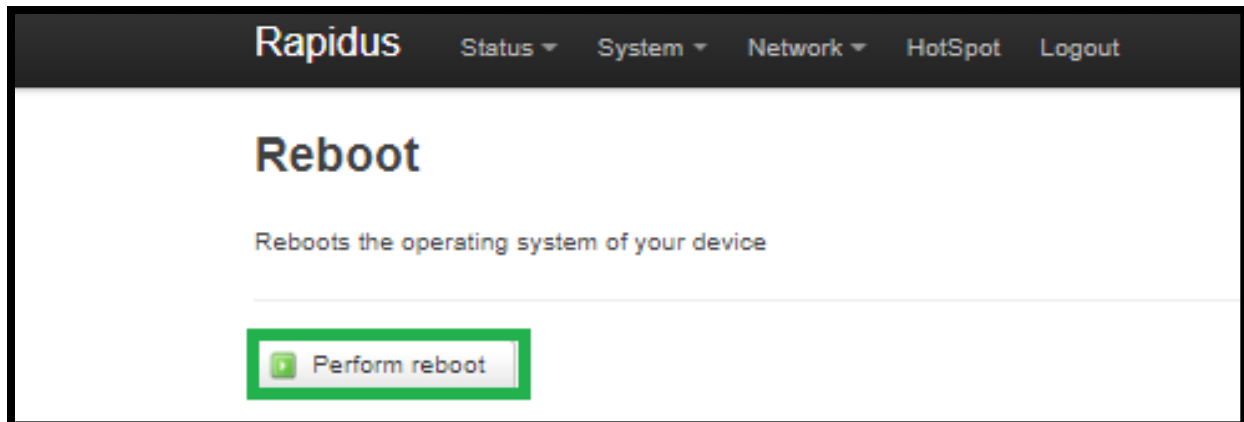
Add

Save & Apply
Save
Reset

Navigate to the “System” tab and click “Reboot” from the drop-down menu.



When directed to the following page, click “Perform Reboot”.



The unit will reboot with VLANs disabled, but all other settings will be reserved. If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.