

RAPIDUS WIRELESS NETWORKS

ROUTER

CONFIGURATION FOR ROUTER HOW-TO

ROUTER

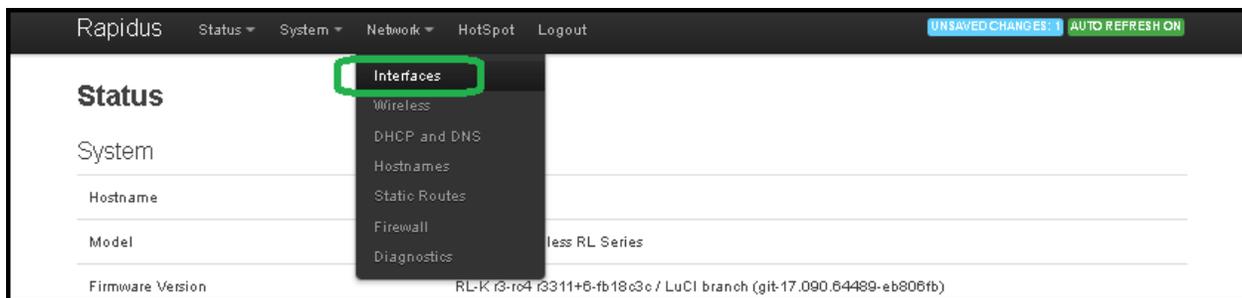
CONFIGURATION FOR ROUTER HOW-TO

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.

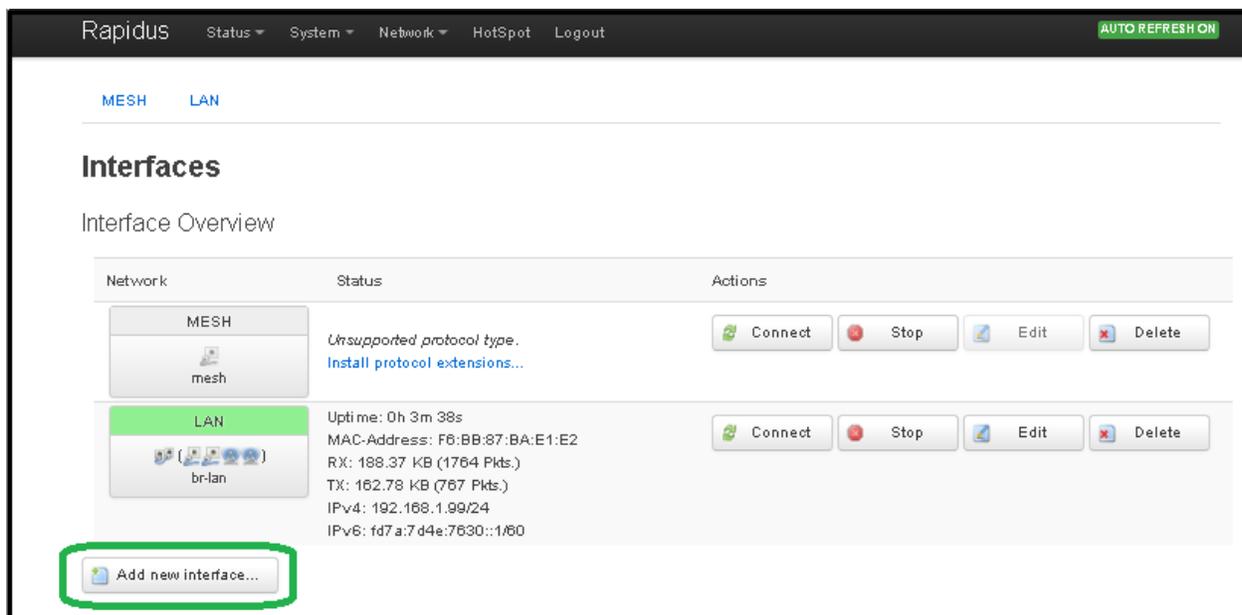
NOTE: Before you start you should have a plan outlined of which IP addresses you will be using in your network to be set for your router.

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.

The screenshot shows the 'Create Interface' page in the Rapidus web interface. The page has a dark header with navigation links: Status, System, Network, HotSpot, and Logout. The main content area is titled 'Create Interface'. It contains several form elements: a text input for 'Name of the new interface' with the value 'wan'; a note about interface name length; a dropdown for 'Protocol of the new interface' set to 'Static address'; a checkbox for 'Create a bridge over multiple interfaces'; and a section 'Cover the following interface' with radio buttons for various network adapters and a 'Custom Interface' option with a dropdown set to 'none'. At the bottom, there are 'Back to Overview' and 'Submit' buttons.

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

The screenshot shows the 'Interfaces - WAN' page in the Rapidus web interface. The page has a dark header with navigation links: Status, System, Network, HotSpot, and Logout. There are also indicators for 'UNSAVED CHANGES: 3' and 'AUTO REFRESH ON'. The main content area is titled 'Interfaces - WAN' and includes tabs for 'WAN', 'MESH', and 'LAN'. A dropdown menu is open over the 'Network' link, showing options: Interfaces, Wireless, DHCP and DNS, Hostnames, Static Routes, Firewall, and Diagnostics. The 'Firewall' option is highlighted with a green box. Below the dropdown, there is a section for 'Common Configuration' with tabs for 'General Setup', 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'.

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

The screenshot displays the 'Firewall - Zone Settings' interface. At the top, there are navigation tabs: 'General Settings', 'Port Forwards', 'Traffic Rules', and 'Custom Rules'. The 'General Settings' section includes options for 'Enable SYN-flood protection' (checked), 'Drop invalid packets' (unchecked), and dropdown menus for 'Input' (accept), 'Output' (accept), and 'Forward' (reject). Below this is the 'Zones' section, which contains a table with columns for 'Zone', 'Forwardings', 'Input', 'Output', 'Forward', 'Masquerading', and 'MSS clamping'. Two zones are listed: 'lan: lan: wan' and 'wan: wan: REJECT'. The 'Edit' button for the 'wan' zone is circled in green. At the bottom right, there are buttons for 'Save & Apply', 'Save', and 'Reset'.

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

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

Input

Output

Forward

Masquerading

MSS clamping

Covered networks

- lan:
- mesh: (no interfaces attached)
- wan:
- create:

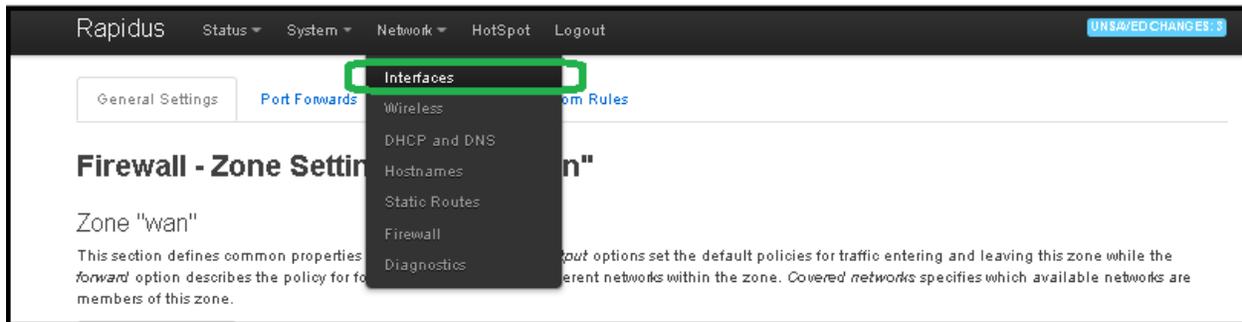
Inter-Zone Forwarding

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.

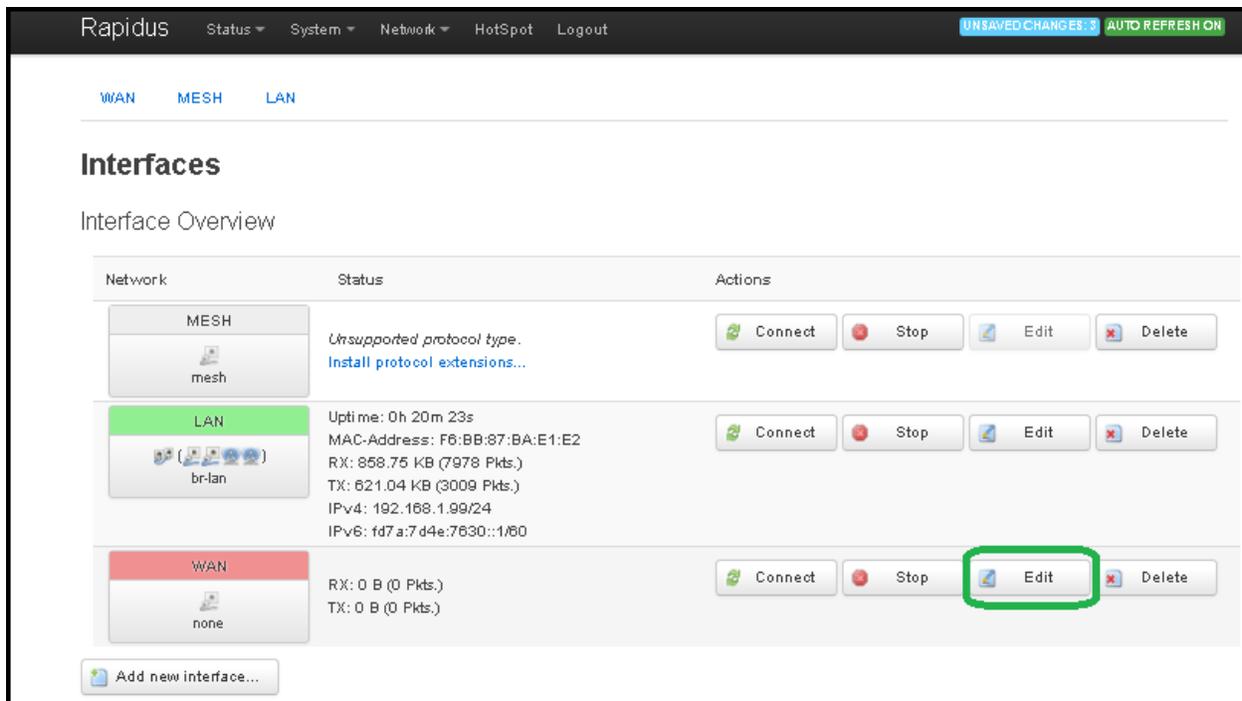
Allow forward to destination zones: lan: lan:

Allow forward from source zones: lan: lan:

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”.

The screenshot shows the Rapidus web interface. At the top, there is a navigation bar with 'Rapidus' on the left and 'Status', 'System', 'Network', 'HotSpot', and 'Logout' on the right. An 'AUTO REFRESH ON' button is in the top right corner. Below the navigation bar, there are tabs for 'WAN', 'MESH', and 'LAN'. The main heading is 'Interfaces - WAN'. Below this, there is a paragraph of text explaining the configuration options. The 'Common Configuration' section is active, and the 'General Setup' tab is selected. The 'Status' is 'none' with 'RX: 0 B (0 Pkts.)' and 'TX: 0 B (0 Pkts.)'. The 'Protocol' dropdown menu is set to 'Static address'. Below the dropdown, there is a 'Really switch protocol?' section with a 'Switch protocol' button. At the bottom, there are buttons for 'Back to Overview', 'Save & Apply', 'Save', and 'Reset'. The 'Protocol' dropdown and the 'Switch protocol' button are highlighted with green boxes.

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 4 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.)
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Protocol: Static address ▾

IPv4 address:

IPv4 netmask:

IPv4 gateway:

IPv4 broadcast:

Use custom DNS servers:

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.

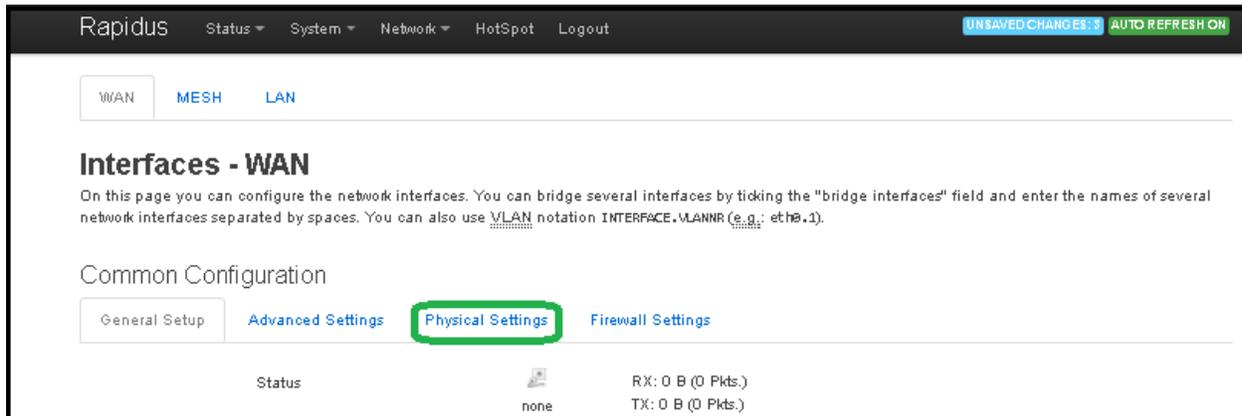
DHCP Server

General Setup IPv6 Settings

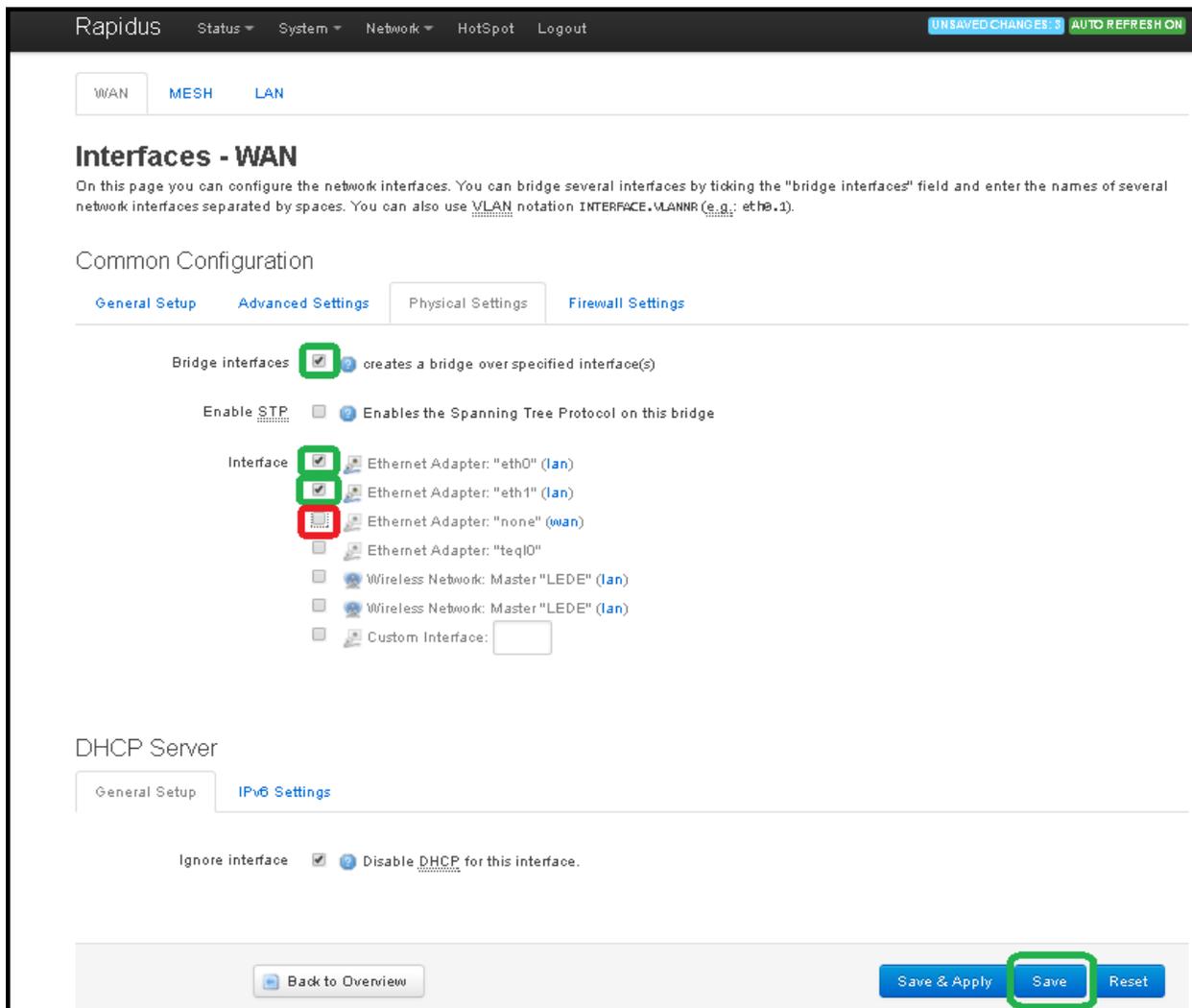
Ignore interface Disable DHCP for this interface.

Back to Overview Save & Apply Save Reset

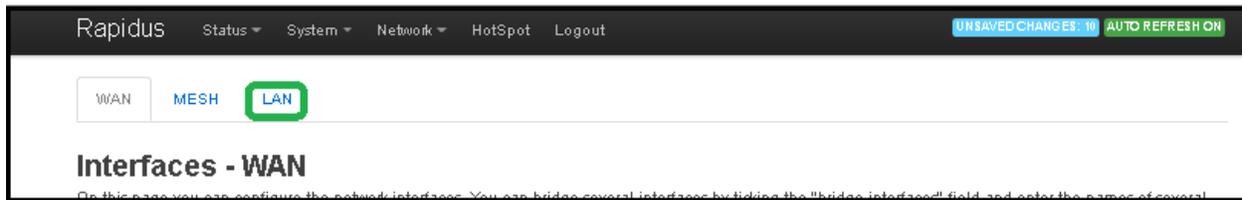
Next click the “Physical Settings” tab under “Common Configuration”.



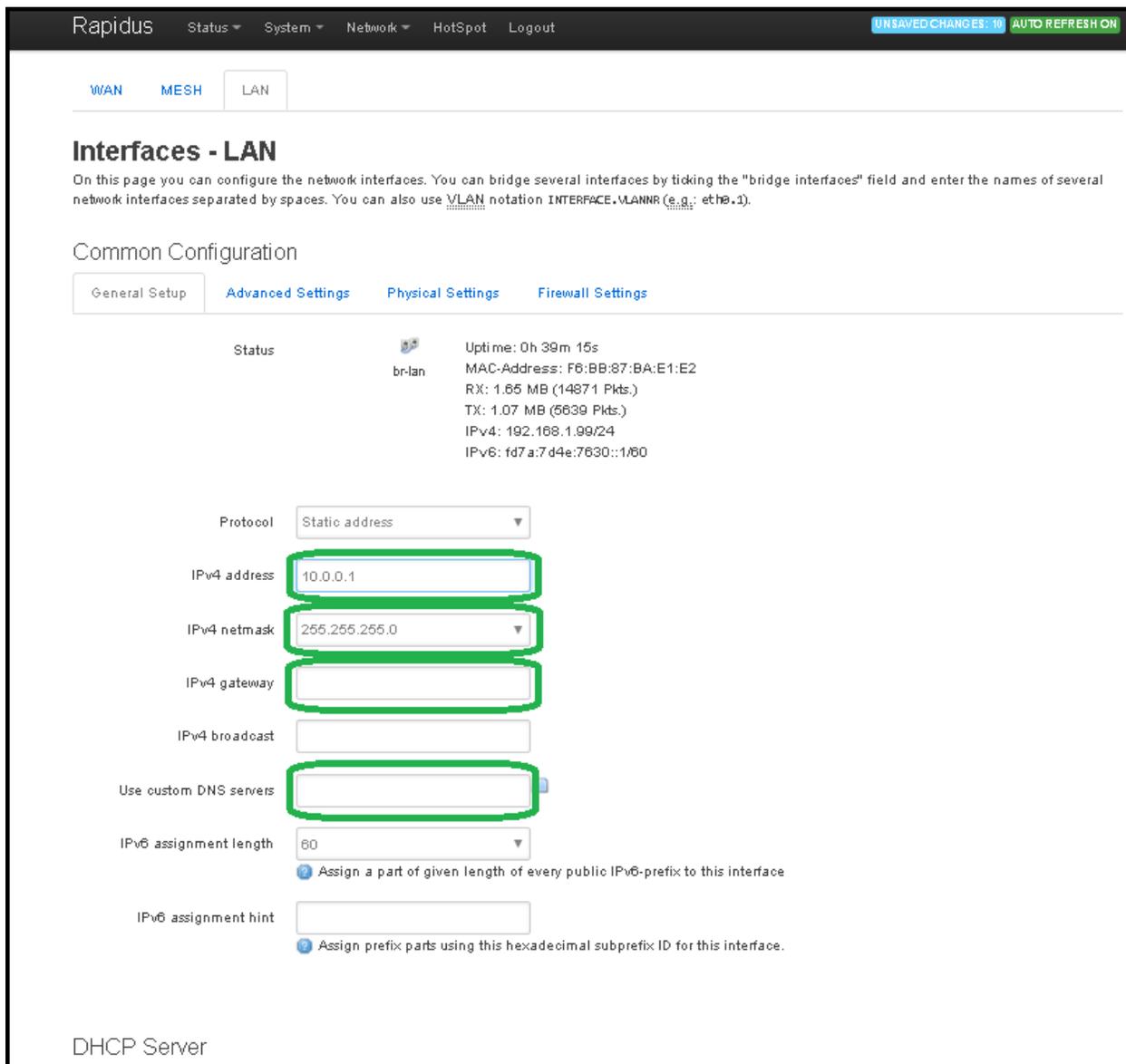
In the “Physical Settings” tab, select “Bridge Interfaces” and for the “Interface” options select both “Ethernet Adapter: eth0 and eth1”. Then unselect “Ethernet Adapter: none” and click “Save”.



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: 13** **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: 18 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: "teq10"
 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
 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).

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.