RAPIDUS WIRELESS NETWORKS

VLAN HOW-TO USER GUIDE

CONFIGURING VLAN SETTING FOR FIRMWARE REV. 6.X.X

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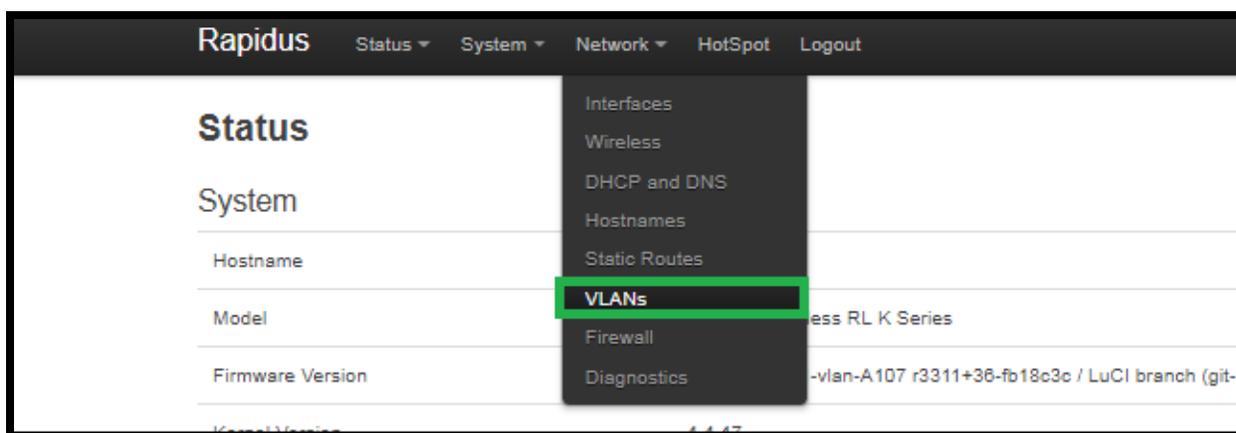
Once directed to the following page you will be able to configure your VALNs using the following sections. Configure **Management:** to restrict access to the current device to hosts on the configured VLAN ID, **WiFi Data:** to use the configured VLAN ID for Wi-Fi traffic and **Tiered WiFi access:**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

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.

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.
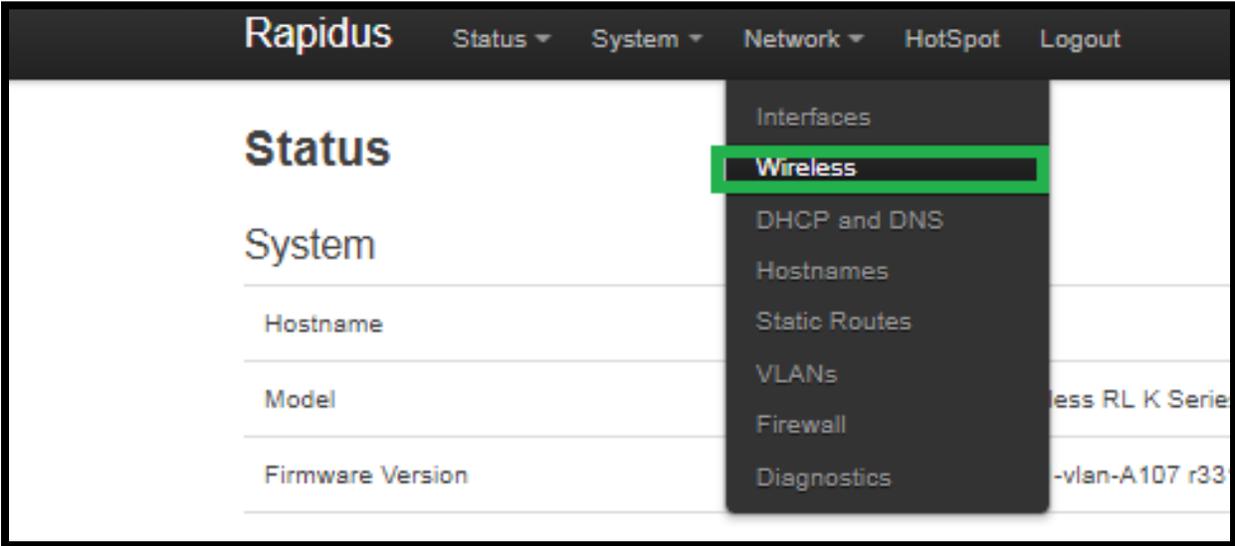
Once directed to the following page. For each of the 2G and 5G default APs, navigate to editing the wireless setting by clicking **"Edit"**
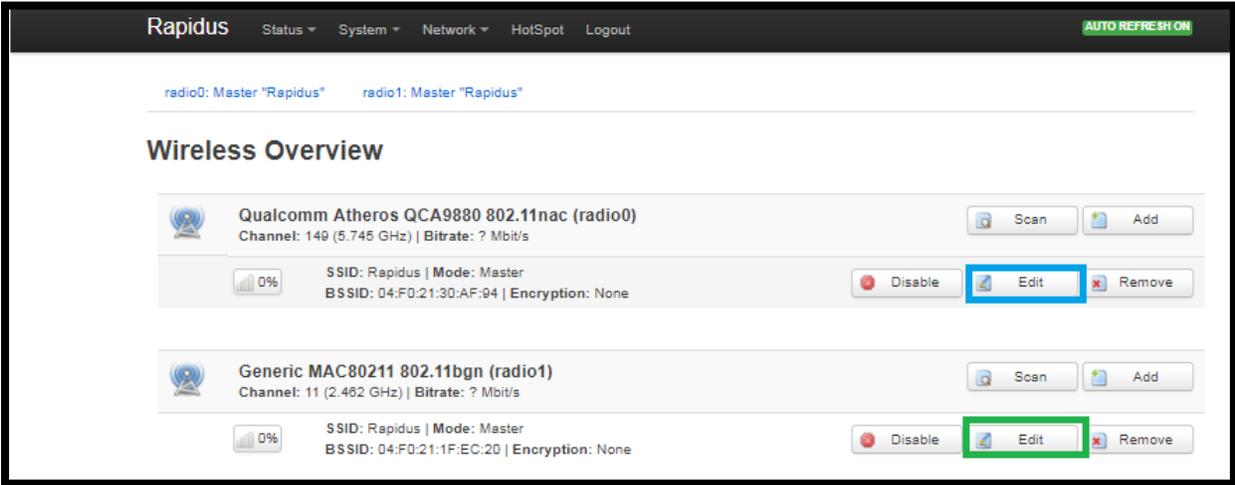
Note: The internal names of the APs are circled in Orange. They are the names shown on the VLAN page.

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 ae 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.

Then set the wireless security and click **"Save & Apply"** to commit the wireless settings.

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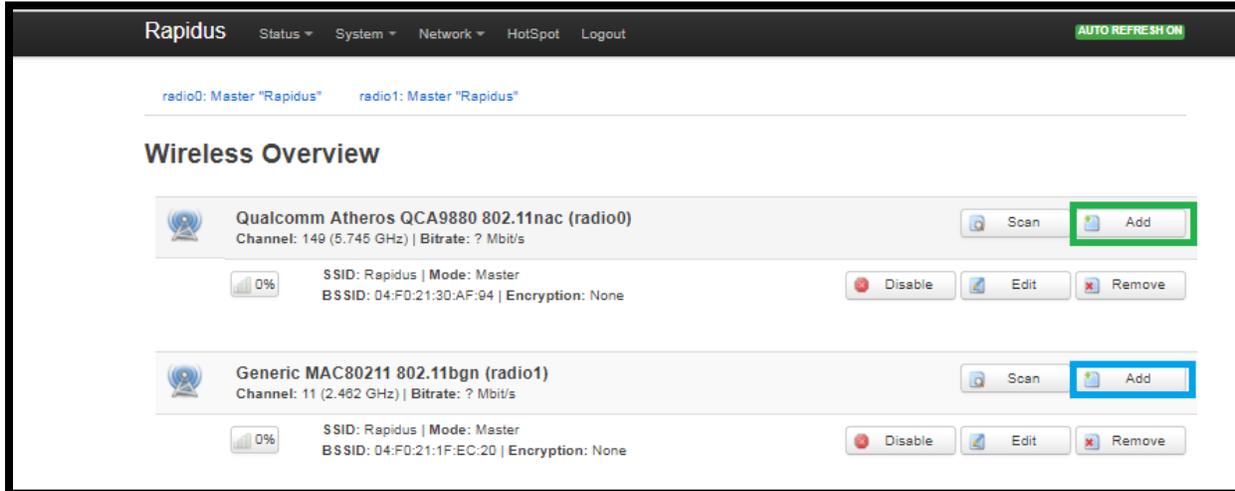
Note: While adding and configuring the additional APs, a temporary name is used (circled in Orange). The APs will get the permanent names mentioned earlier (page 35).

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.
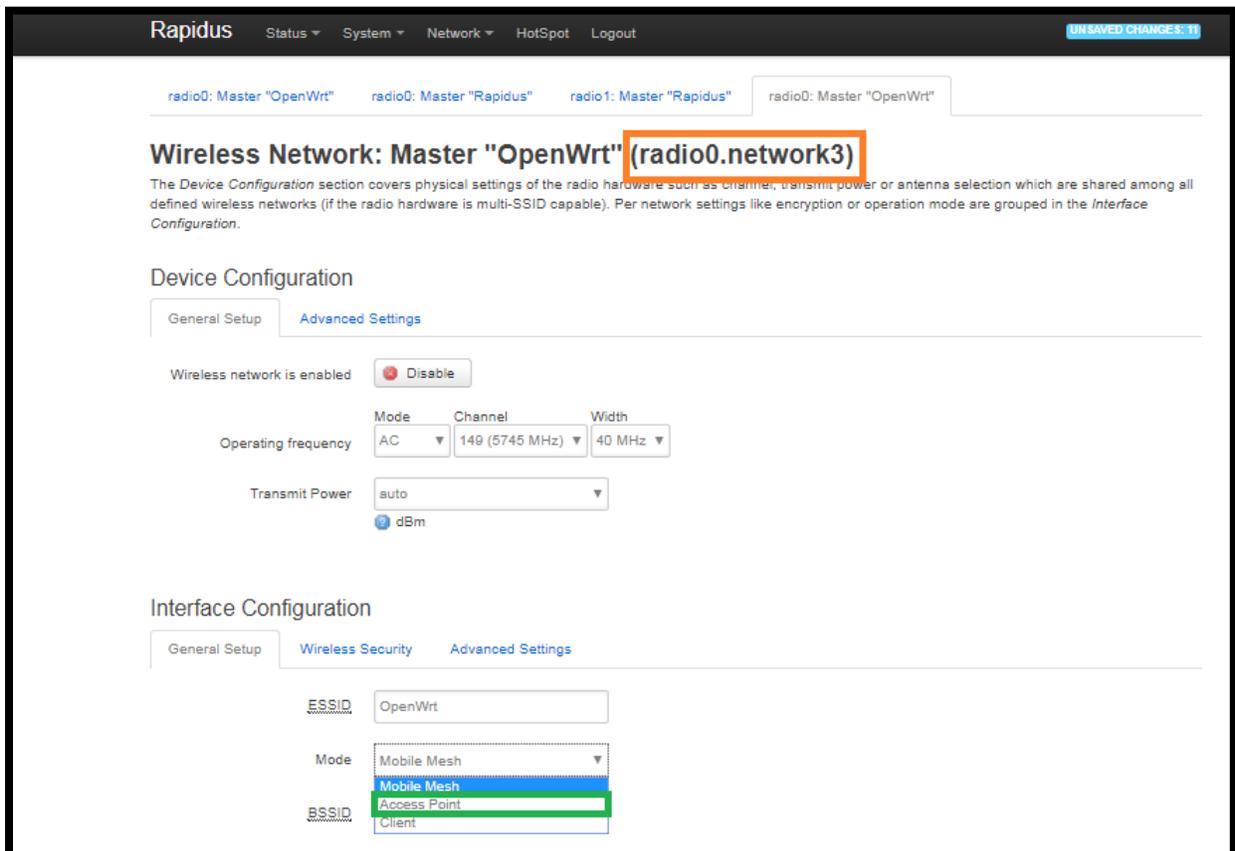
When finished, the **Wireless Overview** page should appear like this.
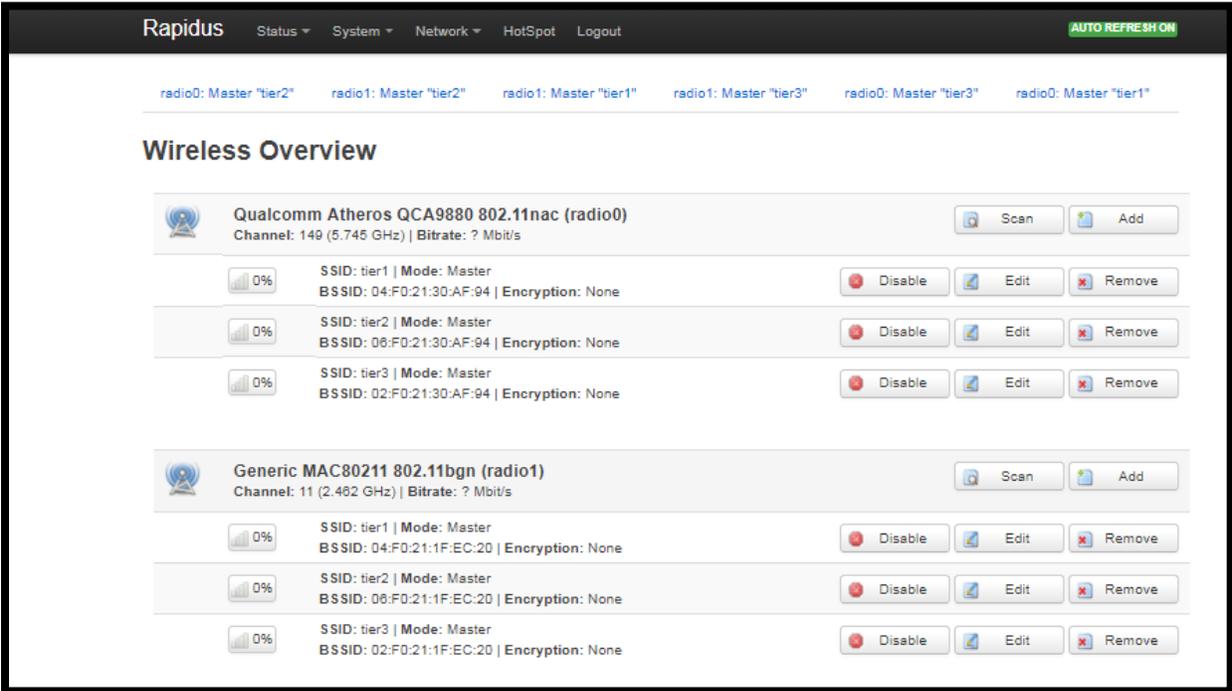
The internal names of the APs can be verified by re-accessing the edit page for the AP.

Navigate back to the VLAN page by clicking the **"Network"** Tab and selecting the **"VLANs"** in the drop down menu.
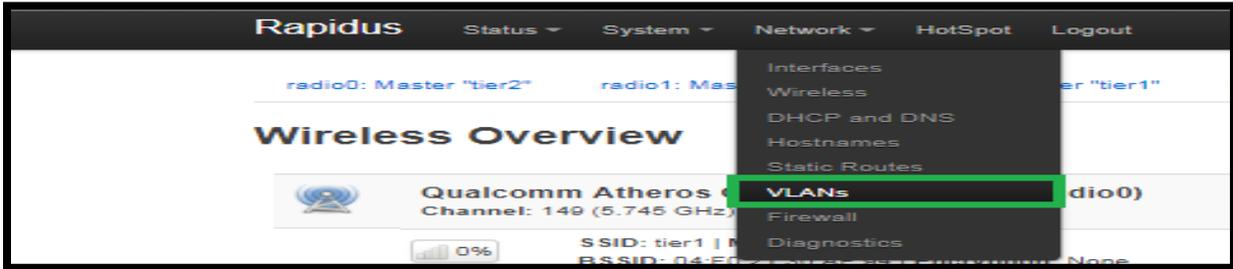
Click the checkbox to enable the **"WiFi Tiered access"** VLANs, then enter the VLANs used on your network for that tier. Optionally, edit the description box, then click **"Save & Apply"** to commit the configuration.
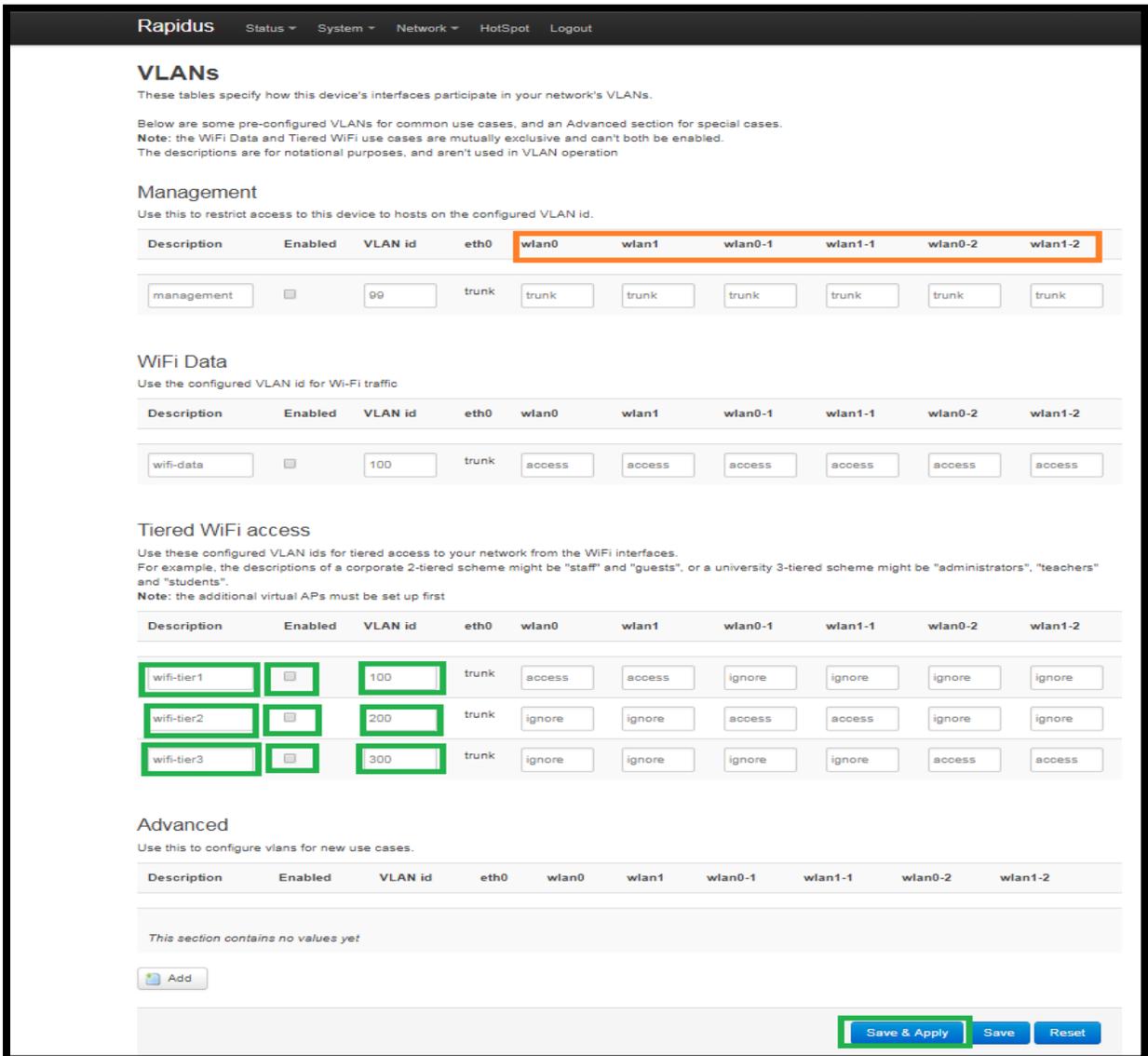
Note: This page uses the internals names (circled in Orange), to refer the APs.

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".**

Navigate to the **"System"** tab and click **"Reboot"** from the drop-down menu.
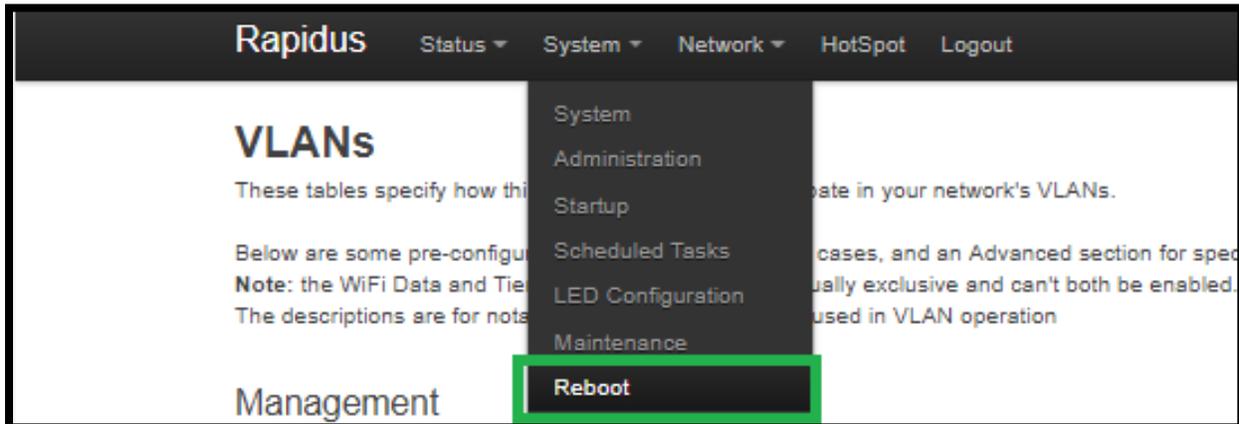
When directed to the following page, click **"Preform Reboot".**
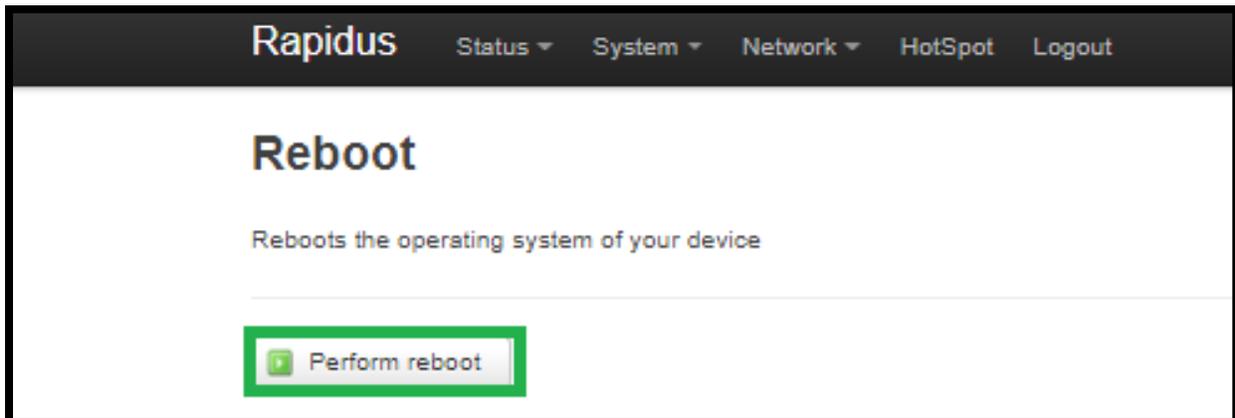
The unit will reboot with VLANs disabled, but all other settings will be reserved. If you find you are having issues or the process is not configuring correctly contact us by phone at 855-864-9488 or visit our website www.rapiduswireless.com.