# RAPIDUS

RAPIDUS WIRELESS NETWORKS

# VLAN HOW-TO USER GUIDE

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

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# <u>VLAN</u>

## **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.

	Rapidus	Status <del>-</del>	System +	Network 👻	HotSpot	Logout
	<b>0</b> 4-4			Interfaces		
	Status			Wireless		
	System			DHCP and	DNS	
	System			Hostnames		
	Hostname			Static Rout	es	
	Model			VLANs Firewall		ess PL K Series
						less ne noenes
	Firmware Vers	ion		Diagnostics		-vlan-A107 r3311+38-fb18c3c / LuCI branch (git-
	Manage Managing				4 4 47	



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.

Below are some pre-configured VLANs for common use cases, and an Advanced section for spece 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 management 09 trunk trunk trunk WIFI Data Use the configured VLAN id for WI-Fi traffic Description Enabled VLAN id eth0 wlan0 wlan1 wifi-data 100 trunk access access Tiered WIFI access	special cases. bled. trunk wlan0-1 v wlan0-1 v access	wlan1-1 wlan0- trunk trunk wlan1-1 wlan0- access access	2 wlan
Management         Use this to restrict access to this device to hosts on the configured VLAN id.         Description       Enabled       VLAN id       eth0       wlan0       wlan1         management       09       trunk       trunk       trunk         WIFI Data       Use the configured VLAN id for Wi-Fi traffic       Description       Enabled       VLAN id       eth0       wlan0       wlan1         wifi-data       100       trunk       access       access       Tiered WiFi access	wlan0-1 v trunk ( wlan0-1 v access (	wlan1-1 wlan0- trunk trunk wlan1-1 wlan0- access access	2 wlan
Description     Enabled     VLAN id     eth0     wlan0     wlan1       management     99     trunk     trunk     trunk       WiFi Data Use the configured VLAN id for Wi-Fi traffic     99     wlan0     wlan1       Description     Enabled     VLAN id     eth0     wlan0     wlan1       wifi-data     100     trunk     access     access	wlan0-1 v trunk ( wlan0-1 v access (	wlan1-1 wlan0-3 trunk trunk wlan1-1 wlan0-3 access access	2 wlan
management       00       trunk       trunk       trunk         WiFi Data         Use the configured VLAN id for Wi-Fi traffic         Description       Enabled       VLAN id       eth0       wlan0       wlan1         wifi-data       100       trunk       access       access         Tiered WiFi access       Image: State Sta	trunk wlan0-1 v	trunk trunk wlan1-1 wlan0- access access	2 wlan
WiFi Data         Use the configured VLAN id for Wi-Fi traffic         Description       Enabled       VLAN id       eth0       wlan0       wlan1         wifi-data       100       trunk       access       access         Tiered WiFi access	wlan0-1 v access	wlan1-1 wlan0- access access	2 wlar
Description     Enabled     VLN to     etho     wind     wind       wifi-data     100     trunk     access     access	access	access access	e wiar
wifi-data     100     trunk     access       Tiered WiFi access	access	access	
Tiered WiFi access			acc
Description Enabled VLAN id eth0 wlan0 wlan1	wlan0-1 v	wlan1-1 wlan0-3	2 wlar
wifi-tier1 100 trunk access access	ignore	ignore ignore	igno
wifi-tier2 200 trunk ignore ignore	access	access	igno
wifi-tier3 300 trunk ignore ignore	ignore	ignore access	acc
Advanced Use this to configure vians for new use cases.  Personiation Excellent VI AN id. athl. widow, where widow	where the second	n11 w/m02	winni 2



#### 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.

These tables specified	y how this devic	e's interfaces pa	articipate in	your network's	VLANs.				
Below are some pro Note: the WiFi Date The descriptions ar	e for notational	ANs for common Fi use cases are purposes, and a	nuse cases mutually e ren't used i	<ul> <li>and an Advar exclusive and ca in VLAN operation</li> </ul>	iced section for in't both be ena on	special cases. bled.			
	access to this de	evice to hosts on	the configr	ured VLAN id.					
Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan1-
management		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-
wifi-data Tiered WiFi a Use these configur For example, the di and "students". Note: the additiona	ICCESS Ed VLAN ids for escriptions of a d	tiered access to corporate 2-tiere st be set up first	trunk your netwo d scheme r	access ork from the Wi might be "staff"	access Fi interfaces. and "guests", o	access	access	access	access ors", "teach
wifi-data Tiered WiFi a Use these configur For example, the d and "students". Note: the additiona Description	CCCESS Id VLAN ids for iscriptions of a of I virtual APs mu Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id	trunk your netwo d scheme r	access ork from the Wi might be "staff" wlan0	sccess Fi interfaces. and "guests", o wlan1	access r a university 3-tie wlan0-1	access	access	vors", "teach
wifi-data Tiered WiFi a Use these configur For example, the di and "students". Note: the additiona Description	ACCESS Ed VLAN ids for escriptions of a d I virtual APs mu Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id	trunk your netwo d scheme r eth0	access	Fi interfaces. and "guests", o wlan1	access	access ared scheme might wlan1-1	access tt be "administrative wlan0-2	occes ors", "teach wlan1-
wifi-data Tiered WiFi a Use these configur For example, the d and "students". Note: the additiona Description	ACCESS ed VLAN ids for secriptions of a of I virtual APs mu Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id	trunk your netwo d scheme r eth0 trunk	access ork from the Wi might be "staff" wlan0 access	Fi interfaces. and "guests", o wlan1 access	access r a university 3-tie wlan0-1 ignore	access ared scheme might wlan1-1 ignore	access It be "administrat wlan0-2 ignore	acces lors", "teach wlan1- ignore
wifi-data Tiered WiFi a Use these configur For example, the d and "students". Note: the additional Description wifi-tier1 wifi-tier2	ACCESS ad VLAN ids for escriptions of a d I virtual APs mu Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id 100 200	trunk your netwo d scheme r eth0 trunk trunk	access ork from the Wil might be "staff" wlan0 access ignore	access Fi interfaces. and "guests", o wlan1 access ignore	access a university 3-tie wlan0-1 ignore access	access ared scheme might wlan1-1 ignore access	access tt be "administrat wlan0-2 ignore ignore	access tors", "teach ignore ignore
wifi-data Tiered WiFi a Use these configur For example, the d and "students". Note: the additional Description wifi-tier1 wifi-tier2 wifi-tier3	ACCESS ad VLAN ids for escriptions of a d I virtual APs mu Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id 200 300	trunk your netwo d scheme r eth0 trunk trunk trunk	access ork from the Wil might be "staff" wlan0 access ignore ignore	Fi interfaces. and "guests", o wlan1 access ignore ignore	access access a university 3-tie wlan0-1 ignore access ignore	access ared scheme might wlan1-1 ignore access ignore	access access access access access access	acces kors", "teach ignore ignore acces
wifi-data Tiered WiFi a Use these configur For example, the d and "students". Note: the additiona Description wifi-tier1 wifi-tier2 wifi-tier3 Advanced Use this to configur	ACCESS ed VLAN ids for escriptions of a of I virtual APs mu Enabled a e vlans for new	tiered access to corporate 2-tiere ist be set up first VLAN id 200 300 use cases.	trunk o your netwo d scheme r eth0 trunk trunk trunk	access ork from the Wi might be "staff" wlan0 access ignore ignore	sccess Fi interfaces. and "guests", o wlan1 sccess ignore ignore	access r a university 3-tie wlan0-1 ignore access ignore	ered scheme might wlan1-1 ignore access ignore	access tt be "administrat wlan0-2 ignore ignore access	vors", "teach wlan1- ignore acces
wifi-data Tiered WiFi a Use these configur For example, the di and "students". Note: the additional Description wifi-tier1 wifi-tier2 wifi-tier3 Advanced Use this to configur Description	CCCESS CCCESS ed VLAN ids for sscriptions of a ( I virtual APs mu Enabled e vlans for new Enabled	tiered access to corporate 2-tiere ist be set up first VLAN id 200 300 USE cases. VLAN id	trunk o your netwo d scheme r trunk trunk trunk trunk	access ork from the Wi might be "staff" wlan0 access ignore ignore wlan0	Fi interfaces. and "guests", o wlan1 access ignore ignore wlan1 wlan1	sccess wlan0-1 wlan0-1 wlan0-1 wlan0-1	access ared scheme might wlan1-1 ignore ignore wlan1-1	access tt be "administrat wlan0-2 ignore access wlan0-2 v	vlan1-2



#### 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 3<sup>rd</sup> 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.

Rapidus stat	tus 👻 System 👻	Network -	HotSpot	Logout
Status		Interfaces <b>Wireless</b>		
System		DHCP and Hostnames	DNS 5	
Hostname		Static Rout	les	
Model		VLANs Firewall		less RL K Serie
Firmware Version		Diagnostic	5	-vlan-A107 r33

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

FF	Rapidus	S Status - System - Network - HotSpot Logout	AUTO REFRESH ON
	radio0: N	laster "Rapidus" radio1: Master "Rapidus"	
v	Virele	ess Overview	
	2	Qualcomm Atheros QCA9880 802.11nac (radio0) Channel: 149 (5.745 GHz)   Bitrate: ? Mbit/s	Add
		SSID: Rapidus   Mode: Master BSSID: 04:F0:21:30:AF:94   Encryption: None	X Remove
	2	Generic MAC80211 802.11bgn (radio1) Channel: 11 (2.462 GHz)   Bitrate: ? Mbit/s	Add
		SSID: Rapidus   Mode: Master BSSID: 04:F0:21:1F:EC:20   Encryption: None	Remove



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 3<sup>rd</sup> 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.

Rapidus Status - Sys	stem ▼ Network ▼ HotSpot Logout
radio0: Master "Rapidus"	radio1: Master "Rapidus"
Wireless Networl The Device Configuration section defined wireless networks (if the r Configuration.	<b>K: Master "Rapidus" (wlan0)</b> covers physical settings of the radio hardware soon as channel, transmit power or antenna selection which are shared among all radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the <i>Interface</i>
Device Configuration	
General Setup Advanced	Settings
Wireless network is enabled	Oisable
Operating frequency	Mode     Channel     Width       AC     V     49 (5745 MHz)     V
Transmit Power	suto V
Interface Configuration	1 Security MAC-Filter Advanced Settings
ESSID	Zeniter
	Rapious
Mode	Access Point 🔻
Network	🗹 lan: 🖉 🧟 🙊 🙊
	mesh: (no interfaces attached)
	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	8
Separate Clients	Prevents client-to-client communication
Ba	ack to Overview Save & Apply Save Reset



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
Mode     Channel     Width       Operating frequency     AC     V     149 (5745 MHz)     V
Transmit Power auto 🔻
Interface Configuration
General Setup Wireless Security MAC-Filter Advanced Settings
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  $2^{nd}$  and  $3^{rd}$  tier, and for each of the 2G and 5G radios, click "Add" to add another AP.

Rapidu	IS Status ▼ System ▼ Network ▼ HotSpot Logout	AUTO REFRESH ON
radio0:	Master "Rapidus" radio1: Master "Rapidus"	
Wirel	ess Overview	
2	Qualcomm Atheros QCA9880 802.11nac (radio0) Channel: 149 (5.745 GHz)   Bitrate: ? Mbit/s	💽 Scan 🎦 Add
	SSID: Rapidus   Mode: Master BSSID: 04:F0:21:30:AF:94   Encryption: None	Z Edit Remove
<b>@</b>	Generic MAC80211 802.11bgn (radio1) Channel: 11 (2.462 GHz)   Bitrate: ? Mbit/s	🔯 Scan 🎽 Add
	SSID: Rapidus   Mode: Master BSSID: 04:F0:21:1F:EC:20   Encryption: None	Z Edit Remove

**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.

Rapidus Status - Sy	stem * Network * HotSpot Logout
radio0: Master "OpenWrt"	radio0: Master "Rapidus" radio1: Master "Rapidus" radio0: Master "OpenWrt"
Wireless Networ The Device Configuration sectio defined wireless networks (if the Configuration.	<b>k: Master "OpenWrt"</b> (radio0.network3) a covers physical settings of the radio hardware such as channer, transmit power or antenna selection which are shared among all radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the <i>Interface</i>
Device Configuration	
General Setup Advance	i Settings
Wireless network is enabled	Disable
Operating frequency	Mode         Channel         Width           AC         ▼         149 (5745 MHz)         ▼         40 MHz. ▼
Transmit Power	auto T
	og alm
Interface Configuratio	n
General Setup Wireless	Security Advanced Settings
ESSID	OpenWrt
Mode	Mobile Mesh 🔻
BSSID	Mobile Mesh           Access Point           Client



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

F	Rapidus	S Status 🕶	System • Network •	HotSpot Logout				AUTO REFRESH ON
_	radio0: M	laster "tier2"	radio1: Master "tier2"	radio1: Master "tier1"	radio1: Master "tier3"	radio0: Master "	tier3" radi	io0: Master "tier1"
v	Virele	ess Over	rview					
		Qualcomr Channel: 14	n Atheros QCA9880 8 19 (5.745 GHz)   Bitrate: ? N	02.11nac (radio0) <sup>Abit/s</sup>			🖸 Scan	Add
		0%	SSID: tier1   Mode: Master BSSID: 04:F0:21:30:AF:94	r   Encryption: None		Ø Disable	Z Edit	Remove
		dii 0%	SSID: tier2   Mode: Master BSSID: 06:F0:21:30:AF:94	r   Encryption: None		Ø Disable	Z Edit	Remove
		0%	SSID: tier3   Mode: Master BSSID: 02:F0:21:30:AF:94	r   Encryption: None		🎯 Disable	Z Edit	Remove
	<b>@</b>	Generic N Channel: 11	IAC80211 802.11bgn ( (2.462 GHz)   Bitrate: ? Mb	radio1) <sup>bit/s</sup>			👩 Scan	Add
		0%	SSID: tier1   Mode: Master BSSID: 04:F0:21:1F:EC:20	r )   Encryption: None		Oisable	Z Edit	Remove
		0%	SSID: tier2   Mode: Master BSSID: 06:F0:21:1F:EC:20	r ]   <b>Encryption</b> : None		Ø Disable	Z Edit	Remove
		0%	SSID: tier3   Mode: Master BSSID: 02:F0:21:1F:EC:20	r )   Encryption: None		🎯 Disable	Z Edit	Remove

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

Rapidus	Status - System - Network - HotSpot Logout
radio0: Mast	er "tier2" radio1: Master "tier2" radio1: Master "tier1" radio1: Master "tier3" radio0: Master "tier3" radio0: Master "tier1"
Wireles	s Network: Master ''tier3' (wlan1-2)
The Device Co defined wireles	ifiguration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all a networks (if the radio hardware is multi-SSID canable). Per network settings like encryption or operation mode are orouged in the <i>Interface</i>



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

R	Rapidus	Status 🕶	System -	Network -	HotSpot	Logout
	radio0: Master	"tier2"	radio1: Mas	Interfaces Wireless		er "tier1"
v	Vireless	Overv	view	DHCP and DNS Hostnames		
	Qu Ch	annel: 149	Atheros (5.745 GHz)	Static Route	25	dio0)
		0% S	SID: tier1   1 SSID: 04:E0	Diagnostics		None

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.

VLANS These tables specify	y how this devic	e's interfaces pa	rticipate in	your network's	VLANs.				
Below are some pre Note: the WiFi Data The descriptions are	-configured VL and Tiered Wif for notational j	ANs for common Fi use cases are purposes, and ar	use cases mutually e en't used i	s, and an Advar exclusive and ca in VLAN operati	nced section fo an't both be end ion	r special cases. abled.			
Management	ccess to this de	evice to hosts on	the config	ured VLAN id.					
Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wla
management		99	trunk	trunk	trunk	trunk	trunk	trunk	tru
WiFi Data	VLAN id for Wi-	Fi traffic							
Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wl
Tiered WiFi a Use these configure For example, the de and "students". Note: the additional	CCESS d VLAN ids for scriptions of a c virtual APs mu:	tiered access to corporate 2-tiered st be set up first	trunk your netwo	access	Fi interfaces. and "guests", r	access	access	access	ators", "
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description	CCESS d VLAN ids for iscriptions of a c virtual APs mu Enabled	100 tiered access to corporate 2-tiered st be set up first	trunk your netw d scheme i	access ork from the Wi might be "staff"	Fi interfaces. and "guests", o	access	ered scheme mig	access	ators", "t
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description	CCESS d VLAN ids for scriptions of a c virtual APs mu Enabled	tiered access to corporate 2-tiered st be set up first VLAN id	trunk your netwo d scheme i eth0	access ork from the Wi might be "staff" wlan0	Fi interfaces, and "guests", o wlan1	access or a university 3-ti wlan0-1	ered scheme mig	access	ators", "t
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description wifi-tier1	CCCESS d VLAN ids for soriptions of a c virtual APs mu Enabled	100 tiered access to corporate 2-tierer st be set up first VLAN id	trunk your netw d scheme eth0 trunk	access ork from the Wi might be "staff" wlan0 access	Fi interfaces. and "guests", r wlan1 access	access or a university 3-ti wlan0-1 ignore	ered scheme mig wlan1-1	access ac	ators", "t wl
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description wifi-tier1 wifi-tier2	CCESS d VLAN ids for soriptions of a c virtual APs mu Enabled	tiered access to corporate 2-tiered st be set up first VLAN id 100 200	trunk your netwi d scheme i eth0 trunk trunk	access ork from the Wi might be "staff" wlan0 access ignore	Fi interfaces. and "guests", o wlan1 access ignore	access or a university 3-ti wlan0-1 ignore access	ered scheme mig wlan1-1 ignore access	access ac	ators", " wi
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description wifi-tier1 wifi-tier2 wifi-tier3	CCESS d VLAN ids for scriptions of a co virtual APs mu Enabled	100 tiered access to corporate 2-tiered st be set up first VLAN id 100 200 300	trunk your netwi d scheme i eth0 trunk trunk trunk	access ork from the Wi might be "staff" wlan0 access ignore ignore	Fi interfaces. and "guests", / wlan1 access ignore ignore	access or a university 3-ti wlan0-1 ignore ignore ignore	ered scheme mig wlan1-1 ignore ignore	access access access access access access access	ators", "t wl ig ig a
wifi-data Tiered WiFi a Use these configure For example, the de and "students". Note: the additional Description wifi-tier1 wifi-tier2 wifi-tier3 Advanced Use this to configure Description	CCOSS d VLAN ids for scriptions of a c virtual APs mu Enabled virtual Soft control of a c virtual and a soft control of a soft con	100 tiered access to corporate 2-tiered at be set up first VLAN id 100 200 300 300	trunk your netwi d scheme r eth0 trunk trunk trunk	access ork from the Wi might be "staff" wlan0 access ignore ignore	Fi interfaces. and "guests", / wlan1 access ignore ignore	access or a university 3-ti wlan0-1 ignore ignore ignore	ered scheme mig wlan1-1 ignore ignore	Access Ac	ators", "1 wi ig a
wifi-data         Tiered WiFi a         Use these configure         For example, the de and "students".         Note: the additional         Description         wifi-tier1         wifi-tier2         wifi-tier3         Advanced         Use this to configure         Description	CCESS d VLAN ids for scriptions of a co virtual APs mu Enabled	tiered access to corporate 2-tiered at be set up first VLAN id 100 200 300 300 Use cases. VLAN id	trunk your netwi d scheme s trunk trunk trunk eth0	access ork from the Wi might be "staff" wlan0 access ignore ignore wlan0	Fi interfaces. and "guests", of wlan1 access ignore ignore wlan1 wlan1	access or a university 3-ti wlan0-1 ignore ignore ignore wlan0-1	ered scheme mig wlan1-1 ignore ignore ignore	access wian0-2 ignore ignore access wian0-2	ators", " w ii ii ii ii ii w an1-
wifi-data         Tiered WiFi a         Use these configure         For example, the de         and "students".         Note: the additional         Description         wifi-tier1         wifi-tier2         wifi-tier3         Advanced         Use this to configure         Description         This section conta	CCOSS d VLAN ids for scriptions of a c virtual APs mu Enabled a vlans for new Enabled ins no values yo	100 tiered access to corporate 2-tiered st be set up first VLAN id 100 200 300 300 Use cases. VLAN id ef	trunk your netwi d scheme trunk trunk trunk eth0	access ork from the Wi might be "staff" wlan0 access ignore ignore wlan0	Fi interfaces. and "guests", 4 wlan1 ignore ignore wlan1	access ac	ered scheme mig wian1-1 ignore ignore wian1-1	access access wlan0-2 ignore access wlan0-2	a ators", " ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

**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 <u>www.rapiduswireless.com</u>.

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".** 

Note: the WiFi Dat The descriptions a Managemen Use this to restrict Description	ta and Tiered Wif re for notational p t access to this de	Fi use cases are purposes, and an	mutually e en't used i	xclusive and ca n VLAN operation	n't both be enab In	led.			
Managemen	It access to this de								
Description		vice to hosts on	the config:	ured VLAN id.					
	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan
management		99	trunk	trunk	trunk	trunk	trunk	trunk	trun
WiFi Data	J VLAN id for Wi-	Fi traffic							
Description	Enabled	VLAN id	eth0	wlan0	wlan1	wlan0-1	wlan1-1	wlan0-2	wlan
wifi-data		100	trunk	800855	800855	800855	800855	800855	acc
Use these configur For example, the d and "students". Note: the additions	ACCESS red VLAN ids for lescriptions of a c al virtual APs mus	tiered access to corporate 2-tiered st be set up first	your netwo d scheme r	ork from the WiF might be "staff" a	i interfaces. and "guests", or	a university 3-tie	red scheme mig	ht be "administrat	iors", "tea
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Navigate to the **"System"** tab and click **"Reboot"** from the drop-down menu.

Rapidus	Status <del>-</del>	System + Network	<del>▼</del> HotSpot Logout
VLANS These tables	s specify how thi	System Administration Startup	ate in your network's VLANs.
Below are so Note: the Wi The descript	ome pre-configu iFi Data and Tie ions are for nota	Scheduled Tasks LED Configuration Maintenance	cases, and an Advanced section for spec ually exclusive and can't both be enabled. used in VLAN operation
Manage	ment I	Reboot	

When directed to the following page, click "Preform Reboot".

Rapidus	Status <del>×</del>	System +	Network 🔻	HotSpot	Logout
Reboot					
Reboots the ope	rating syste	m of your dev	vice		
Perform reb	poot				

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 <u>www.rapiduswireless.com</u>.