

VigorConnect

The Management Software Connects Your Vigor Devices

USER'S GUIDE

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User's Guide

Version: 1.2

Firmware Version: V1.8.0

Date: May 3, 2023

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Part I Introduction



Chapter 1 Introduction

1.1 Introduction

This is a generic International version of the user guide. Specification, compatibility and features vary by region. For specific user guides suitable for your region or product, please contact local distributor.

VigorConnect, a central AP management software, is able to manage VigorAPs connected to Switch/Router. With VigorConnect, an administrator can modify the wireless settings, perform firmware upgrade, backup / restore settings related to VigorAP via a PC easily without accessing into the web page of VigorAPs one by one.

The following figure shows how VigorConnect manages VigorAPs via switch or router:



VigorConnect can manage VigorAP up to 100 devices.

System Requirements for VigorConnect Server

- OS: Windows 7 and later
- CPU: 1.2GHz Quad Core 64 bits CPU
- Memory: 2GB memory (DDR4)
- HDD: 1GB storage
- Browser: Firefox, Chrome, Opera, Safari, IE, Edge

System Requirements for VigorConnect Client

- OS: Windows 7 and later
- Browser: Firefox, Chrome, Opera, Safari, IE, Edge

1.2 Installation

Follow the steps below.

- 1. Visit www.draytek.com.
- 2. Open Products>>Software/ Tools>>VigorConnect.

	Routers	Access Points	Software / Tools	Accessories	
	VPN Routers	VIGORAP 1060C	VigorACS 3	Cyren and Cyren Zero Day	
Products	Load Balancing Routers	VigorAP 903	VigorACS 2	All Accessories	
Products	DSL Modern Routers	All Access Points	VigorConnect	Live Demo 🛄	
Vigor	LTE ROUTERS	AP Matrix 88	Smart VPN Client	Databook 2003	
rigori	Fiber Rousers	Switches	Drayfiek Network		
Local Netwo	Vigor2927 Series	VigorSwitch G1080	Management App:		
	Vigor2866 Series	PoE Switches	VIQUESNES APP		
	All Routers	All Switches	All Utilities 🖏		
	Router Matrix 88	Switch Materix			

3. Scroll this page to find out **Download Software_Windows**.

Download Version V1.8.0	Visibility Get network insights about AP/Switch, client, and CPU usage over a specified period.
View Release Note 🖸	Scheduled Maintenance Schedule an off-hour firmware upgrade or configure backup/restore.
Download File Checksum	Download Detasheet for detailed Specification.
AP Management	Switch Management
Mesh in the Network	
Mesh in the Network Easy Installation	

- 4. Download **VigorConnect** onto your computer.
- 5. Run the installer. Specify the language you want.

Installer L	anguage 🔀
	Please select a language.
	English 💌
	OK Cancel

6. When the following dialog appears, click **Next**.



7. Specify the destination folder and click **Install**.

🕞 VigorConnect 1.8.0 Setup	- • •
Choose Install Location Choose the folder in which to install VigorConnect 1.8.0.	
Setup will install VigorConnect 1.8.0 in the following folder. To install in a dif Browse and select another folder. Click Install to start the installation.	ferent folder, dick
Destination Folder C:\Program Files\VigorConnect	B <u>r</u> owse
Space required: 825.7 MB Space available: 16.3 GB Nullsoft Install System v3.06.1 < <u>Back</u> Install	Cancel

8. Wait for required files installing onto your computer.

🕞 VigorConnect 1.8.0 Setup	
Installing Please wait while VigorConnect 1.8.0 is being installed.	
Extract: SystemLog.exe	
Extract: AcsDBCreater.exe 100% Extract: DrayTek_QS_VigorConnect_V1.0.pdf 100% Extract: Error.ico 100% Extract: NetFolw Skipped: Run.ico Extract: Server.cert 100% Extract: Server.key 100% Extract: StartVigorConnect.exe 100% Extract: Stop.ico 100% Extract: SystemLog.exe	
Nullsoft Install System v3.06.1	Cancel

9. Then, the setup dialog with default values will appear. Click each tab to check the settings. It is recommended to use the default values. Then, click **OK**.

📑 Vig	orConne	ct Setup						×
HTTP	HTTPS	InfluxDB	SMNP Trap	NSQ	sFlow	NetFlow	Grafana	Syslog
Po	rt:			929	2			
	Enable			© D	isable			
Outb	ound IP:			0.0.	0.0 (all)			•
🔽 R	un As Serv	ice						
A	llow VigorC	onnect in W	indows Firew	all				
				<u>O</u> K				

10. When the following dialog appears, simply click **OK**.



11. Check the box of Run VigorConnect and click **Finish**.



Chapter 2 Getting Started

2.1 Accessing to Web User Interface

All functions and settings of this access point must be configured via web user interface. Please start your web browser (e.g., Firefox).

 Double click the VigorConnect icon on the desktop or open Programs >> VigorConnect>> VigorConnect.



2. Please enter "root/admin123" as the Username/Password and enter validation code. Then, click **Login**.

	대한 English ~
	VigorConnect
	Username
	root
	Password
Dray Tek	
	Captcha Code
	6729 6729
	Remember Me
	Login

3. For the first time to access into VigorConnect, Vigor system will ask you to change the login password. If you want to use the default password, simply click **Cancel** to access into the main screen.



4. Now, the **Main Screen** will appear.

Root Network						igorConnect	System Time 14:48 02/03/2023	root R System Administrator
Root Network							Aut	o Refresh: 1 Minute 👻 C 🗧
Device Overview				≡Categ	ory +	New Devices		≡ Unmanaged Device
Device Name	Model	MAC	UP Time	Firmware Version	ы	Select / Deselect All	search Device Name / IP / MAC	
AP 1000C_001DAA04F06C	VigorAP 1000C	001DAA04F06C		1.4.4	0	Action WebLogin@IP	Device Name	Device Type
AP 903_00507FF19216 G2280x_001DAA43C7BA	VigorAP 903 VigorSwitch G2280x	00507FF19216 001DAA43C7BA		1.4.6	0		No data available	
P2280_001DAA0CB609	VigorSwitch P2280	001DAA0CB609		2.6.6	0			
PQ2121xb_14498C50673D	VigorSwitch PQ2121xb	1449BC50673D		2.8.0_RC2	0			
)	ee ≪e 1/1 »> 1	м			QDiscover
Active Clients- Top 10+				Last 24 ho	urs+			
1				o Tota	¢.			
	68:0	10						
Total Current:0								
PQ2121xb_1449BC506731	D Current:0							
AP 903_00507FF19216	Current:0							
AP 1000C_001DAA04F06C	Current:0							

5. The web page can be logged out by clicking Log Out on the top right of the web page. Or, logout the web user interface according to the chosen condition. The default setting is Auto Logout, which means the web configuration system will logout after 5 minutes without any operation. Change the setting of auto logout if you want.

(i) Note:

If you fail to access the web configuration, please go to the section "Trouble Shooting" for detecting and solving your problem.

For using the device properly, it is necessary for you to change the password of web configuration for security and adjust primary basic settings.

2.2 Changing Password

- 1. Please change the password for enhancing the security.
- 2. Click the top-right corner to list the drop down menu. Choose **Set Password.**



3. A Set Password page is shown as follows. Enter a new password and re-enter the password to confirm the setting.

Set Password		
Account :		
New Password	medium	٢
Confirm Password	•••••	© Save

- 4. Click Save.
- 5. Now, the password has been changed. Next time, use the new password to access the Web User Interface of VigorConnect.

2.3 Dashboard

2.3.1 Dashboard for Root Network

The Dashboard displays general information and quick overview for all the devices (CPE, Access Point) managed by VigorACS.

Root Network							Αυτο Γ	Refresh: 1 Minute
Device Overview				≡Catego	ny v	New Devices		≡Unman
Device Name	Model	MAC	UP Time	Firmware Version	ы	Select / Deselect All	search Device Name / IP / MAC	
AP 1000C 001DAA04F06C	VigorAP 1000C	001DAA04F06C		1.4.4	0	Action WebLogin@IP	Device Name	Device Type
AP 903_00507EE19216	VigorAP 903	00507EE19216		1.4.6	0		No data available	
GZ280x_001DAA43C7BA	VigorSwitch G2280x	001DAA43C/BA		2.8.2	Q		NO Gata available	
P2280_001DAA0CB609	VigorSwitch P2280	001DAA0CE609		2.6.6	0			
PQ2121xb_1449BC50G73D	VigorSwitch PQ2121xb	1449BC50673D		2.8.0_RC2	0			
				e et 1/1 >> >>	н			Q
			_					
Active Clients 10p10+				Last 24 hou	112+			
1				 Total 				
	08:0	.0						
Total Current:0								
PQ2121xb 1449BC50673D	Current:0							
	1							

A: Menu Bar - Displays the menu items related to the network.

B: Display Tab - Displays current selected item, e.g., root network, user-defined network and CPE model. In this page, the Root Network is selected.

C: System Time - Displays the system time.

D: Selections - Displays current used account and offer selections for setting password, two-factor authentication, and logout.

E: Auto Refresh, Manual Refresh, and Widget - For the widget, there are six display views to select, including Network Overview, Clients, New Devices and Reset to default. Only the selected one(s) will be displayed on the dashboard.

F: Overview - There are several types (Network Overview, Clients, New Devices) of overview under the Root Network.

2.3.2 Dashboard for a Device

This page offers device information such as system resource, connectivity and alerts for the selected device, wireless LAN configuration, wireless station overview, LAN overview, Network Status, Operation Mode, Connectivity and Alerts, and Quick Tools for the selected device.

						С	D	
	=	AP 1000C_001DAA04F06C	B	Dray Tek Vie	orConnect	System Time 16:36 02/03/2023	system Administrator	
	0	Dashboard				lance of the climits of		E
	<u></u>				Device Status: offline A	larms: 0 Active Clients: 0	Auto Refresh: 1 Minute V	1
A				<u>.</u>	Wireless Station List 2.4G	No data available		
	Z		5G-2 5C-1 2,4G					ll F
	•	USB -2 F	THOE RESET		Wireless Station List 5G			
	-67-					No data available		
	28	Device Information		Wireless LAN (2.4GHz)	Wireless Station List 5G-2			
	(j)	Device Name AP 1000	C_001DAA04F05C	Status		No data available		1
		IP Address http://19	97.168.105.185:80	Mode				
```		Network Name Root Net	twork	Channel				
		Model VigorAP	1000C	MAC	LAN Overview			
		Firmware Version 1.4.4			LAN 🕂 Status	↓↑ IP/Mask	UT DHCP UT	
		MAC Address 001DAA0	J4F06C	Wireless LAN (5GHz)		No data available		
		Up Time		Status			~ show more	
		Hardware Version 1.0.3		Mode			siter nere	
		Serial Number		Channel	Materials			
		Note 1		мас	Network			

A: Menu Bar - Displays the menu items related to the selected device.

**B: Display Tab** - Displays current selected item, e.g., root network, group network and device model.

**C: System Time** - Displays the system time.

**D: Selections** - Displays current used account and offer selections for setting password, two-factor authentication, and logout.

**E:** Auto Refresh, Manual Refresh, and Widget - For the widget, there are six display views to select, including Network Overview, Clients, New Devices and Reset to default. Only the selected one(s) will be displayed on the dashboard.

**F: Information** - Displays information related to the device, wireless LAN, LAN, wireless stations, etc., of the selected device.

### 2.3.3 Menu Bar

Displays the menu items available for the network or network group or selected device (CPE).

Menu Bar for Root Network.				
	(?) E2		<ul><li>Dashboard</li><li>Monitoring</li></ul>	
			Configuration	
	<ul> <li>✓</li> <li>∰</li> <li>∴</li> <li>∴</li> </ul>		Maintenance Network Management System User About	
<ul> <li>𝔅</li> </ul>	MaintenanceScheduled BackupConfiguration RestoreFirmware UpgradeDevice RebootSchedule ProfileFile Manager		Move the mouse cursor to each con to open the drop down menu ist. Select the menu item and access nto the configuration web page.	

#### 2.3.4 Root Network and Selected CPE

The information on the dashboard will be shown according to the root network, the network group or a CPE selected.

#### 2.3.4.1 The Display Tab, Root Network

Click the **Display Tab** to display a drop-down list. This tab will display the root network or the name of the selected CPE based on your selection. In default, Root Network will be shown on the Display Tab.

Root Network	^	Dre
Networks and Devi	ices	Q X
Network	Model	\$ C
< Home		
g Root Network(5)		a
ය NetFlow(0)		

When the **Display Tab** shows a CPE, and you want to return to Root Network, please move the mouse cursor on the Display Tab. Click to display the drop-down list and select the Root Network.

#### 2.3.4.2 The Display Tab, CPE Device

Click the **Model Tab**. Next, click the > button to list other CPE devices with the same model as the selected device. Select the device you want, then the selected CPE will be shown on the Display Tab.



#### 2.3.5 Set Password, Two-factor Authentication, and Log Out

Display current used account and offer selections for setting password, two-factor authentication, Manage Notification, theme change and logout.

	Sys	root tem Administrator	R
uto	Auto	Logout 😮	
	-	Set Password	
	0	Two-factor Authen	tication
	$[ \rightarrow$	Log Out	

#### 2.3.5.1 Set Password

The login password for <u>current user account</u> can be changed simply and easily by using Set Password from the drop down menu on the top-right corner.

S	et Password	
	Account :	
	New Password	0
	Confirm Password	•
		Save

#### 2.3.5.2 Two-factor Authentication

Usually, the system administrator can access into VigorConnect by using user account and password. If network security is highly concerned, two-factor authentication will be strongly recommended.

For using two-factor authentication for accessing VigorConnect;

- 1. Get and install Google Authenticator (iOS/Android) first.
- 2. Login VigorConnect by using the user account and password.

	⊠∃ English ∽
	VigorConnect
	Username root
<b>Dray</b> Tek	Password 💿
	Captcha Code 6729 6720
	Remember Me
	Login

3. Open Root>>Two-factor Authentication and enable the button of Enable two-factor authentication.

Two-factor authentication				
Account : root				
Enable two-factor authentication				
<ul> <li>Get and install Google Auth</li> <li>Scan a barcode or manual i</li> <li>Click save button to verify or</li> </ul>				
Description	root@VigorConnect Display in App: root@VigorConnect.			
QR-Code				
Manual Input	45NIK5F4NCLJXWTE			
Verification Code				
		× Cancel	图 Save	

4. Use your cell phone to scan the QR-Code shown on the Two-factor Authentication page.

10:44 🕫	••• 4G 🔳
VigorACS (root@VigorACS)	
967 460	•
Vigor2865Lac (admin@192.168.1.1)	
074 774	٩
Vigor2927Vac (admin@192.168.1.230)	)
046 586	•
DrayTek+Gitea+(gitea.draytek.com)	(Dray
541 366	•
Draytek SmartVPNClient (Home to C	office)
970 118	•
VigorConnect (root@VigorConnect)	ÿ.
667 417	•
	(+)

5. A key will be created randomly on the cell phone. Enter that key on the box of **Verification Code** and click the **Save** button.

Two-factor authentication				
Account : root				
Enable two-factor authentication				
Note: • Turn on Two Factor Authentication please follow the instructions below.				
Get and install Google Auth     Scan a barcode or manual				
	code which generated from APPs			
	uld backup secret key or barcode			
Description	root@VigorConnect			
	Display in App: root@VigorConnect.			
QR-Code				
Manual Input	45NIK5F4NCLJXWTE			
Verification Code	667417			
		× Cancel Save		

6. Logout VigorConnect.

7. Re-login VigorConnect. The first login web page requires you to enter the original user account and password.

	画書 English
	VigorConnect
	Username root
	Password
<b>Dray</b> Tek	Captcha Code
	6729 6729 ·
	Remember Me
	Login

After clicking the Login button, the **second** login web page appears. Please enter the verification code (created randomly) obtained from the APP (Google Authenticator) on your cell phone and click the Verify button.



#### 2.3.5.3 Logout VigorConnect

Click **Logout** icon to logout VigorConnect immediately. Or, switch the toggle of Auto Logout to enable the function of exiting VigorConnect after five minutes without any operation.

	Sys	<b>root</b> tem Administrator	R
uto	Auto	Logout 😮	
	-	Set Password	
	0_	Two-factor Authen	tication
	[ ightarrow	Log Out	

### 2.3.6 Auto Refresh, Manual Refresh, and Widget

Auto Refresh : 1 Minute 🖌 C 🕸				
ltem	Description			
Auto Refresh	Select the time interval for refresh the web page automatically.			
	Auto Refresh : 1 Minute ~ 1 Minute 5 Minute 10 Minute Disable			
Manual Refresh	Click to refresh the web page immediately.			
Widget	There are four display views to select, including Network Overview, Clients, New Devices and Reset to default. Only the selected one(s) will be displayed on the dashboard.			
	Auto Refresh: 1 Minute V C 🔅 Vetwork Overview Clients New Devices Device Reset to default			

#### 2.3.7 Overviews

There are five types (Network Overview, Active Clients, New Devices) of overview under the Root Network. Use the Widget drop menu to select or deselect the type of the overview.

Root Network								Auto Refresh: 1 Minute 👻 🔿 🧔
Device Overview					≡ Category •	New Devices		≡ Unmanaged Devices
Device Name	Model	мас	UP Time	Firmware Version	LAN Clients	Select / Deselect All	search Device Name / IP / MAC	
IP 1000C_001DAA04F06C	VigorAP 1000C	001DAA04F06C	1000	1.4.4	0	Action WebLogin@IP	Device Name	Device Type
AP 903_00507FF19216	VigorAP 903	00507FF19216	-	1.4.6	0			
52280x_001DAA43C7BA	VigorSwitch G2280x	001DAA43C7BA	100	2.8.2	0		No data available	
2280_0010AA0CB609	VigorSwitch P2280	001DAA0CB609		2.6.6	0			
Q2121xb_1449BC50673D	VigorSwitch PQ2121xb	14498C50673D		2.8.0_RC2	0			
				100 40	1/1 34 360			QDiscover
Active Clients- Top10-					Last 24 hours+			
					0 Total			
Total Current:0		98:00						
AP 903_00507FF19216 C								
PQ2121xb_1449BC50673D	Current:0							
G2280x_001DAA43C7BA	Current:0							
P2280_001DAA0CB609	urrent:0							

#### 2.3.7.1 Device Overview

This area displays the Device Overview.

ltem	Description
Category	Switch between <b>Network</b> or <b>Device</b> .
	e v Network Device

Under **Device Overview**, move the scroll bar left and right to check basic information for each device. Click >> (Next) or << (Previous) arrow to display next page for checking information for other devices.

#### 2.3.7.2 Active Clients

This area displays the top 10 clients or top 20 clients accessing into VigorConnect during the last 24 hours, 7 days or 30 days.

Act	tive Clients- Top10+				Last 24 hours•
1	Тор 10 Тор 20				• Total
	100 20				
			0	8:00	
Tota	al Current:0				
AP 9	003_00507FF19216	Current:0			
PQ2	2121xb_1449BC5067	3D Current:0			
G22	80x_001DAA43C7BA	Current:0			
P22	80_001DAA0CB609	Current:0			

ltem	Description
Last 24 hours	Use the drop down list to specify the time period, last 24 hours, 7 days or 30 days.

#### 2.3.7.3 New Devices

Click **Discover** to search new devices (AP or switches). The new device(s) can be found and displayed on the list.

New Devices					$\equiv$ Unmanaged Devices•
🗌 Sel	lect / Desele	ect All	search Device Name / IP / MAC		
Action	WebLogin@	IP		Device Name	Device Type
	admin	admin	@192.168.105.124:443	P2280_001DAA0CB55B	P2280
	admin	admin	@192.168.108.161:443	G1280_001DAA0D0263	G1280
	admin	: admin	@192.168.105.251:443	G1280_001DAA0D07F0	G1280
				✓Add (1)	QDiscover

ltem	Description
Select/Deselect All	Check the box to enable the function of Select All or Deselect All.
	Click the button to select a device.
Add	Add a new device onto the network. Refer to "Applications, A.3 How to Assign a New Added CPE to a Network?" for detailed information.

#### 2.3.7.4 Reset to Default

Use the Widget drop menu to select or deselect the type of the overview. Or, click Reset to default to restore the factory default overviews on the dashboard.

Auto Refresh:	1 Minute 🗸 🔅
	Network Overview
	Clients
	New Devices
Devic	e [·] Reset to default

### 2.3.8 Icons Used in VigorConnect

ltem	Description
+	Add a new device.
	Switch these two icons by click the mouse cursor on it. - means "Enable". - means "Disable".

# **Applications**

#### A.1 How to Create a New Network?

VigorConnect allows the administrator to build several networks (and sub-network) for different devices under the *root network*.

Only the administrator has the right to create a new user group.

1. From the MENU bar, click **Network Management**.

=	Root Network V
(7)	Network Management
<u></u>	Search by Device ID/Name/Model/MAC/IP Addre
	Root Network(5)
	👬 NetFlow(0)
Z	
£03	

2. When the following page appears, click the link of **+Add New Network**.

letwork Management	
Search by Device ID/Name/Model/MAC/IP Address	C Setting
Root Network(5)	+Add New Network
	Network ID
	Name Root Network
	Location

3. A pop-up window appears. Type the required information.

F Add Network	×
Parent Network	
Root Network	
Name	
Manual_Carrie	~
Location	
HS	
User Name	
carrie	~
Password	
********	٩
× Cancel	+ Add

- Name Enter a new name of the network.
- Location Define the location of such network.
- User Name Enter a user name for such network.
- Password Enter a password for such network.
- 4. Click **+Add** to save the settings. The new created network will be seen under the **Root Network**.

Root Network V	
Network Management	
Search by Device ID/Name/Model/MAC/IP Address	C
<ul> <li>Manual_Carrie(0)</li> <li>AP 1000C_001DAA04F06C</li> </ul>	
AP 903 00507FF19216	

#### A.2 How to Assign a New Added Device to a Network?

New added device can be grouped under Network. If no assignment, the new device will be grouped under Root Network in default.

1. Open the dashboard of the network (e.g., Marketing_Carrie) created in A-1.



2. On the dashboard, click **Discover** under the field of New Devices. Vigor system will search nearby AP/switch and display the device(s) on this page.

Manual_Carrie	✓ DrayTek v	igorConnect	System Time 13:18 03/03/2023 Syste	root em Administrator
Manual_Carrie			Auto Refresh:	1 Minute ≻ C ⇔
Device Overview	≡ Category •	New Devices	search Device Name / IP / MAC	≡ Unmanaged Devices•
Device Name Model M	MAC UP Time Firmware Version LAN Clients	Action WebLogin@IP	Device Name	Device Type
	No data available Ket 📢 1/1 🍽 💓		No data available	QDiscover
Active Clients- Top10+	o Total -			

3. Later, scanned devices will be shown under the field of New Devices.

			Auto Refresh: 1	Minute Y C 🕸
New	Devices			≡ Unmanaged Devices•
🗌 Sel	lect / Deselect All	search Device Name / IP / MAC		
Action	WebLogin@IP		Device Name	Device Type
	admin admin	@192.168.105.124:443	P2280_001DAA0CB55B	P2280
	admin : admin	@192.168.108.161:443	G1280_001DAA0D0263	G1280
	admin : admin	@192.168.105.251:443	G1280_001DAA0D07F0	G1280
				QDiscover

4. Check the one(s) which will be managed under the specified network (e.g., Marketing_Carrie) and click **Add**.

x
1

5. Then, the selected devices will be shown under **Device Overview**.

Manual_Carrie					
Device Overview					≡ Category <del>•</del>
Device Name	Model	MAC	UP Time	Firmware Version	LAN Clients
Q2121x_1449BC506AA4	VigorSwitch Q2121x	1449BC506AA4		2.8.1	0

This page is left blank.

Part II System and User Settings Management



# Chapter 3 System Menu



# 3.1 System Parameter

System / System Parameter		
		C
ID	Name	Value
1	EnableValidateCodeCheck	true
2	EnableFirmwareCheck	true
3	ShowTreeCount	100
4	FWUpgradeFailInterval	86400
6	LogsRetentionDays	365
7	AutoDetectRouterName	false
1001	HTTP Port	9292
1002	Enable HTTP	true
1003	HTTPS Port	4433
1004	InfluxDB HTTP Port	8089
1005	InfluxDB DB Port	8091
1006	SNMP Trap Port	162
1007	Enable SNMP Trap	true
1008	NSQ Port	4150
1009	sFlow Port	6343
1010	SFlow Sampling Rate	400
C Reset to default		× Cancel 🔀 Save

Open **System >> System Parameter** to get the following web page:

These parameters are explained as follows:

Item Description

1	EnableValidateCodeCheck
	True – Enable the function of validating code check on the login page.
	False – Disable the function. It is the default value.
2	EnableFirmwareCheck
	True - VigorConnect will compare current firmware of the device with the file version detected from DrayTek website. Therefore, while viewing the Firmware Version on the dashboard of the selected device, a pop-up window with current firmware version detected will appear if both firmware versions are different.
3	ShowTreeCount
	Set how many devices will be shown on the home device tree. Default value is 100.
4	FWUpgradeFailInterval
	If the firmware upgrade failed, the next firmware upgrade will execute after the time interval configured here. Default value is 86400 seconds.
6	LogsRetentionDays
	VigorConnect will store the log for a while (the number of days defined here).
7	AutoDetectRouterName
	If enabled (choosing true), the system will detect the name of the device automatically while allowing the registration from the device or doing the VigorConnect online check.
5	Reset to default
	Click the link to reset all of the system parameters with factory default values.
Save	Save the current settings.

# 3.2 Logs

Information displayed here shall be useful for the administration to viewing the status for user access.

Syster	n / Logs											
System	Log	~	search ID / Source / Description			Time Interval	: 2023/02/	01 to 202	3/03/03	5		
🕹 Exp	ort All						И	1	/1	>	Ø	G
ID ↓↑	Source	$\downarrow \uparrow$	Description	$\downarrow\uparrow$	Result	$\downarrow\uparrow$	Time					$\downarrow \uparrow$
13	Grafana		Load Grafana System Information OK.		Succe	SS	2023-02-0	07 11:26:4	5			
12	SYSTEM		System Parameter Reboot		Succe	SS	2023-02-0	)7 11:26:2	2			

These parameters are explained as follows:

ltem	Description
System Log / Login Log /	Click one of the types to display log of System and Login.
Search ID / Source / Description	Specify the conditions (type the ID number, username, the IP address or overview) for log searching.

Time Setting	Select a time interval. The log within the period will be shown on the page.	
	Time Interval : 2023/02/01 to 2023/03/03	
	Time Last 30 Days ~	
	>	
	× Cancel Q Search	
	S 2023-02-07 11:26:45	
System Log	Display the ID number, description, result and time.	
Login Log	Display the log information, including ID, username, authentication, login IP, status, login time and logout time for clients accessing into VigorConnect.	
Export All	Log information can be exported as a file.	
# 3.3 ACS

With the following configuration, VigorConnect (the client) can deliver the complete information to VigorACS for displaying the NetFlow charts after collecting the required data.

(F)	System / ACS		
<u>E-</u>	ACS Server		
-0- -0-	Status	8	
2	Enable Server	D	
•	Register Server (IP / Domain Name)	192.168.105.180	
ø	Browse Server (IP / Domain Name)	192.168.105.180	
28	Port	20314	
1	Username	acs	
	Password	••••••	
	Keep Alive (seconds)	30	
	ACS Type	Standalone Cloud	
	Enable STUN		
	STUN Port	3478	
			10 Save

ltem	Description
ACS Server	
Status	Displays the current status (X or ✓) of registering to ViorACS. If successful registration, a tick will be shown instead after clicking Save.
Enable Server	Click to enable the function of connecting to VigorACS server.
Register Server	Enter the IP or domain name of VigorACS server. VigorConnect will be registered to VigorACS after clicking <b>Save</b> .
Browse Server	Usually, it will be the same as the Register Server.
Port	Enter the port number used for connecting VigorConnect and VigorACS server.
Username	Enter the name for accessing VigorACS server.
Password	Enter the password for accessing VigorACS server.
Keep Alive (seconds)	Enter the values (seconds) for keeping the network connection between VigorConnect and VigorACS server.
АСЅ Туре	<ul> <li>Select one of the ACS types for building connection between VigorConnect and VigorACS server.</li> <li>Standalone</li> <li>Cloud</li> </ul>
Enable STUN	Click to enable the function of the STUN server.
STUN Port	Enter the port value used for the STUN server.

VigorConnect	
Username / Password	The settings are generated by VigorConnect automatically. It is recommended to use the default setting.
Save	Save the current settings.

# **3.4 Service Control**

VigorConnect will apply various services to generate various data and chart.

In general, use the default settings in this page.

Name	<b>t</b> t	Enable	↓↑ Status	J↑ Error Message	
CwmpProxy			0		
Grafana			0		
Influxdb			<b>S</b>		
Nsq			0		
VigorCwmpWorker#0			0		
VigorFlowAnalyzer			<b>S</b>		
VigorFlowCollector			<b>v</b>		
VigorSyslogAnalyzer			<b>v</b>		
VigorSyslogCollector			<b>O</b>		

# 3.5 Syslog Setup

VigorConnect allows recording logs by internal or external databases.

(7)	System / Syslog Setup	
<u></u>	Enable Syslog	
494	Database Type	Internal(SQLite) MariaDB(MySQL)
Z	MariaDB(MySQL)	
	Host	192.168.105.34
ŝ	Port	3306
23	Username	cshih
(j)	Password	••••••
		(B) Save

These parameters are explained as follows:

lter	n	Description	
------	---	-------------	--

Enable Syslog	Click to enable recording the log for the system configuration to the Syslog.
Database Type	<ul> <li>Select the (internal or external) database type.</li> <li>Internal(SQLite)</li> <li>MariaDB(MySQL)</li> </ul>
MariaDB(MySQL)	
Host	Enter the host name of the database.
Port	Enter the port number used for the database.
Username	Enter the user name which is set while installing MariaDB for VigorConnect.
Password	Enter the password which is set while installing MariaDB for VigorConnect.
Save	Save the current settings.

# 3.6 Reboot System

Click **Reboot** to restart VigorConnect with current configuration.

(7)	System / Reboot System
<u></u>	Reboot System Reboot
Z	
ŝ	
<u></u>	
i	

# Chapter 4 User Menu

VigorConnect allows a user to manage AP devices through VigorConnect server. However, the user has to type specific name and password defined in this page. Different users must use different names and passwords for accessing VigorConnect.

This chapter will guide you to define users. It can be set with different roles (at present, only System Administrator is allowed); each role has different administration authority.

The user management function allows a user to set name, password, and e-mail address as identification in VigorConnect system.

(7)	User	
<u></u>	User Management	
	Mail Server	
	SMS Server	
Z		
۲		
ŝ		
යු		
i		

### 4.1 User Management

To add, delete a user or check information for a user, open **User** >> **User Management.** This page displays basic information including username, authentication, role, status (active, inactive), and email address for the user.

User / User Management	t		
+ Add 🗊 Delete			
howing 1 to 1 of 1 entries			Show 10 $\checkmark$ entries $\iff$ 1 $\gg$
Username	$\downarrow \uparrow$ Authentication	.↓↑ Role	J↑ Status J↑ Email J
oroot	Internal	System Administrator	Active

These parameters are explained as follows:

ltem	Description
+Add	Click to add a user.
Delete	Click to remove the selected user.

The following setting page appears when **+Add** is clicked.

ltem	Description			
Enable	lick to enable the user profile.			
Username	Enter a name for the new user.			
Password	nter the password for the user.			
Role	Choose the role for the selected <b>user</b> . Different role represents different authority that the user group will have. The great the authority is, the more functions the user can have.			

	System Administrator – Have the highest authority.		
Email Notify	Click to enable the email notification function.		
Email	Enter the email for communication between the user and VigorConnect server.		
SMS Notify	Click to enable the SMS notification function.		
Telephone	Type the telephone number for receiving the SMS notification.		
Description	Enter a brief description for the user.		
Cancel	Discards current settings.		
Create	Click it to create a new user profile and exit the page.		

After finished the above settings, click **Create** to add a new user account.

To edit an existing user account, select the one (e.g., carrie_ni) and click it.

User /	User Management							
+ Add	🗊 Delete							
Showing	1 to 2 of 2 entries							Show 10 v entries < 1 🕨
	Username 4	Authentication	$\downarrow \uparrow$	Role	$\downarrow \uparrow$	Status	$\downarrow \uparrow$	Email 41
0	root	Internal		System Administrator		Active		
0	carrie_ni	Internal		System Administrator		Active		carrie_ni@draytek.com
	+ Add	Showing 1 to 2 of 2 entries	+ Add Delete Showing 1 to 2 of 2 entries Username 1 Authentication root Internal	+ Add Delete Showing 1 to 2 of 2 entries Username Ut Authentication Ut root Internal	+ Add Delete Showing 1 to 2 of 2 entries           Username         1/r         Authentication         1/r         Role           orot         Internal         System Administrator	+ Add Delete Showing 1 to 2 of 2 entries Username 41 Authentication 41 Role 41 root Internal System Administrator	+ Add Delete Showing 1 to 2 of 2 entries Username 41 Authentication 41 Role 41 Status root Internal System Administrator Active	+ Add Delete Showing 1 to 2 of 2 entries Username 41 Authentication 41 Role 41 Status 41 root Internal System Administrator Active

# 4.2 Mail Server

It is used to configure the mail server for sending e-mail. All of the user groups can apply the mail server settings configured in this page.

User / Mail Server			
Send Test Email Send To Def	ault		
Enable Server			
Security	STARTTLS ~		
Host			
Port	587		
Authentication			
Username			
Password	•		
From email			
			3

ltem	Description			
Send Test Email	Click to make a simple test if the user (receiver) can get the mail or not. Notification mail can be sent to multiple mail addresses after clicking Send Test Email.			
Reset To Default	Click to reset the mail server to default settings.			
Enable Server	Click to enable /disable the SMTP server.			
Security	Choose None, STARTTLS or SSL / TLS for the security of the mail transferring.			
Host	Enter the IP address of the SMTP server.			
Port	ype the port number of the SMTP server.			
Authentication	Click to activate/disable this function while using e-mail application.			
Username	Enter the user name for authentication.			
Password	Enter the password for authentication.			
From email	Enter the e-mail address as the sender.			
Save	Save the current settings.			

### 4.3 SMS Server

It is used to configure the SMS server for sending notification. When a CPE in a group encounters an event which can be classified as the level defined in this page, a SMS will be sent out for notification.

er / SMS Server		
Enable SMS Server	$\bullet$	
SMS API	SMS_Messagebird ~	
Access Key	SMS_Messagebird SMS_Nexmo	
Originator		

ltem	Description
Enable SMS Server	Click to enable /disable the SMS server.
SMS API	Use the drop down list to choose an ISP for sending SMS.
Access Key	Enter the key value based on the information from the service provider.
Originator	Enter the name/value based on the information from the service provider.
Save	Save the current settings.

# Chapter 5 About VigorConnect



### 5.1 Update

This page offers information for the newest version of VigorConnect.

bout / Update	
Upgrade Method	Online upgrade. (recommended)
	O When the latest version is detected, the installation package download link will be displayed.
Installed Version	1.8.0
C check	

Available settings are listed as follows:

ltem	Description	
Upgrade Method	<b>Online upgrade.</b> - After clicking it, you will be notified when the latest version is available.	
	When the latest After clicking it, the system will display the newest version available for you to download and upgrade for VigorConnect.	
Installed Version	Display the current software version installed.	

# 5.2 License Agreements

This page displays relational license information required by VigorConnect.

Root Network	× )	<b>Dray</b> Tek	VigorConnect	System Time 15:39 03/03/2023	rool System Administrator
License Agreements					
Apache License, Versio	in 2.0		MIT		
Name	Author	Web Site	Name	Author	Web Site
client_golang	prometheus	Ø	go-socks5	armon	ø
go-oidc	coreos	Ð	go-ini	vaughan0	Ø
cobra	spf13	Ø	goinfo	matishstao	8
go-proxyproto	pires	Ð	diskv	peterbourgon	Ø
BSD 3-clause License			BSD license		
Name	Author	Web Site	Name	Author	Web Site
protobuf	golang	ð	gosnmp	gosnmp	ø
mux	goriita	Ð	gopsutii	shirou	P
nock	gotrs	Ð	Crypt2go	Andre Burgaud	8
goint	zieckey	P	Handlers		P
GNU General Public Lic	cense v3.0		ISC License		
Name	Author	Web Site	Name	Author	Web Site
simdb	sonyarouje	8	grotp2-golang	oschwald	ø
			FIP	Julien Laffaye	8
BSD-2-Clause license			Attribution-ShareAlike 4	4.0 International	
Name	Author	Web Site	Name	Author	Web Site
go-rest-api	messagebird	8	GeoLite2-City.mmdb	MaxMind	8

# **Applications**

#### A.1 How to Create a Network for Managing Devices?

1. Open Network Management.



2. Click +Add New Network on the Setting page.

Network Management Search by Device ID/Name/Model/MAC	C Setting		
<ul> <li>Root Network(7)</li> <li>Manual_Carrie(2)</li> </ul>	+Add New Network		
<ul> <li>AP 1000C_001DAA04F06C</li> <li>AP 903_00507FF19216</li> </ul>	Network ID 2	User Name acs	
<ul> <li>G2280x_001DAA43C7BA</li> <li>P2280_001DAA0CB609</li> </ul>	Name Root Network	Password	۵
✔ PQ2121xb_1449BC50673D ♣ NetFlow(0)	Location		
			🖹 Sav

3. In the following page, type required information for the new network.

Parent Network	
Root Network	
Name	
Manual	د ا
Location	
HS	
User Name	
carrie	
Password	
	0

- 4. Click Add.
- 5. The new network has been created and displayed on the tree view.

etwork Management	
Search by Device ID/Name/Model/MAC/IP Addre	Setting Map
A Root Network(240)	+Add New Network
▷ ♣ 1111(0)	General Settings
ALANWEN(3)	General Settings
Alvaco(0)	Network ID
▷ ♣ Marketing_carrie(0)	2

#### A.4 How to Change the Network of a Device?

1. Open Network Management.



2. Choose and click a device displayed on the Network tree view (e.g., G1280 under Manual_Carrie).

(7)	Network Management	
<u></u>	Search by Device ID/Name/Model/MAC C	Setting
	<ul> <li>Root Network(7)</li> <li>A Annual_Carrie(2)</li> </ul>	+Add New Network
Z	<ul> <li>G1280_001DAA0D07F0</li> <li>Q2121x_1449BC506AA4</li> </ul>	Network ID
	? AP 1000C_001DAA04F06C	2 Name
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>?</b> AP 903_00507FF19216	Root Network
4	<ul><li></li></ul>	Location
(i)	PQ2121xb_1449BC50673D	
~	🚠 NetFlow(0)	

3. From the following page, click **Change Network.** 

Network Management		
Search by Device ID/Name/Model/MAC	C Setting	
<ul> <li>Root Network(7)</li> <li>Manual_Carrie(2)</li> <li>G1280_001DAA0D07F0</li> </ul>		
<ul> <li>Q2121x_1449BC506AA4</li> <li>AP 1000C_001DAA04F06C</li> </ul>	Status Disable Enable	Known Device Known Unknown
AP 903_00507FF19216	Device ID	Network ID
G2280x_001DAA43C7BA	7	3
P2280_001DAA0CB609	Model Name	Device Name
PQ2121xb_1449BC50673D	VigorSwitch G1280	G1280_001DAA0D07F0
The NetFlow(0)	Note 1	Note 2
	Serial number	MAC Address

4. Click the network you want from **Root Network** and click **Apply**.

Name	
G1280_001DAA0D07F0	
Add to network	
	(
🗅 👬 Root Network	

5. The selected device has been grouped under the specified network (Root Network, in this case).

Network Management	
Search by Device ID/Name/Model/MAC C	Setting
<ul> <li>Root Network(7)</li> <li>Manual_Carrie(1)</li> </ul>	前Delete This Device   器 Change Network
<ul> <li>Q2121x_1449BC506AA4</li> <li>AP 1000C_001DAA04F06C</li> <li>AP 903_00507FF19216</li> <li>G1280_001DAA0D07F0</li> </ul>	Status Disable Enable Device ID
<ul><li>? G2280x_001DAA43C7BA</li><li>? P2280_001DAA0CB609</li></ul>	7 Model Name
PQ2121xb_1449BC50673D A NetFlow(0)	VigorSwitch G1280 Note 1

#### A.3 How to Add a User?

- 1. Open User>>User Management.
  - User
     User Management
     Group Management
     Network Group
     External Authentication Server
     Mail Server
     Function Management
     Wholesale Wizard
     SMS Server
     SNMP Server
- 2. Click +Add.

User / User Management + Add Delete Showing 1 to 2 of 2 entries Show 10 ~ entries					≪ 1 ≫			
	Username	↓↑ Authentication	$\downarrow\uparrow$	Role	↓↑ Status	$\downarrow\uparrow$	Email	$\downarrow \uparrow$
	root	Internal		System Administrator	Active			
	carrie_ni	Internal		System Administrator	Active	(	carrie_ni@draytek.com	

3. In the following page, type required information for the new user.

User / User Management		
Add User Profile		
Enable		
Username	TestForCo	
Password	@	
Role	System Administrator	
Email Notify		
Email	carrie@draytek.com	
SMS Notify		
Telephone	TestForCo 🗸	
Description	Test for user management	
	× Cancel 🔯 C	Create
		_

#### 4. Click **Create**.

User / User Management						
+ Add 🗴 Delete						
Showing 1 to 3 of 3 entries Show 10 🗸 entries 🕊 1						1 )>
	Username ↓↑	Authentication $\downarrow$	↑ Role	小 Status	↓↑ Email	$\downarrow\uparrow$
	root	Internal	System Administrator	Active		
	carrie_ni	Internal	System Administrator	Active	carrie_ni@draytek.com	
$\oslash$	TestForCo	Internal	System Administrator	Active	carrie@draytek.com	

# Part III General Settings for Managing Device



# **Chapter 6 Network Management**

Network Management allows you to modify the information for Networks and Devices.



lt can

- Add new network (s) for new client which will be managed by VigorConnect.
- Delete existed network if the client will not be managed by VigorConnect.
- Modify the name and location of the network for management.

### 6.1 Setting

To add, change or delete a network, please open **Network Management.** 

6.4.1.1 Settings for Root Network

earch by Device ID/Name/Model/MAC/IP Addre	C Setting		
A Root Network(7)	+Add New Network		
Q2121x_1449BC506AA4	Network ID	User Name	
@ AP 1000C_001DAA04F06C	2	acs	
AP 903_00507FF19216	Name	Password	
<ul> <li>G1280_001DAA0D07F0</li> <li>G2280x_001DAA43C7BA</li> </ul>	Root Network	••••••	Φ
22280x_001DAA0CB609	Location		
PQ2121xb_14498C50673D			
A NetFlow(0)			
			and the second se
			(D) Save
			D Save
			D Save
			(2) Save
			12 Save
			62 Sove

These parameters are explained as follows:

Item	I	Description
------	---	-------------

Search by device ID/name/model/MAC /IP Address	Enter the ID, name, model, MAC address, or IP address of the device you want to locate.
+Add New Network Click to add a new network.	
General Settings	
Network ID	Display a number which is given by VigorConnect randomly for the selected network.
Name	Display the name of the parent network. You can modify it if required.
Location	Type the location (e.g., HsinChu, New York) for such network.
User Name	Display the name of the selected network. Change it if required.
Password	Display the password of the selected network. Change it if required.
Save	Click to save the change.

The following setting page appears when **+Add New Network** is clicked.

+ Add Network		×
Parent Network		
Root Network		
Name		
Manual		~
Location		
HS		
User Name		
carrie		~
Password		
•••••	<	0
	× Cancel	Add
		ĥ

ltem	Description
Parent Network	Display the name of the root network. New created network will be the sub-network of the parent network. In default, <b>Root Network</b> is the parent network for any new created network.
Name	Enter a name for the new network.

Location	Enter the location for the new network. Later, you can locate such network on the web page of <b>Network Management&gt;&gt;Map.</b>
User Name	Enter a login name (e.g., carrie) for the new network which will be used for communication between Vigor device and VigorConnect.
Password	Enter a password (e.g., admin123) for this new network.
Cancel	Discards current modification.
+Add	Save the current settings and exit the page.

#### 6.4.1.2 Settings for Device

The administrator can create several sub networks for different CPEs. Also, the administrator can change the network for the CPEs.

Open Network Management. This web page allows to:

- Modify the name of the device for easy identification and management by VigorConnect.
- Modify the location of the device easily.
- Modify the user name/password of certain device (non-DrayTek device) to be managed by VigorConnect.
- Enable or disable the management of the device for VigorConnect.
- Select certain protocol (e.g., http/https) for the device (CPE) for management.

Choose and click any one of the CPE displayed on **Root Network** tree view to get the following web page.

Search by Device ID/Name/Model/MAC/IP Addre	O Setting	
A Root Network(7)		
👬 Manual_Carrie(0)	Delete This Device 👍 Change Network	
2 AP 1000C_001DAA04F06C	-	
AP 903_00507FF19216	Status Disable Enable	Known Unknown
G1280_001DAA0D07F0	Disable	Khown Unknown
@ G2280x_001DAA43C7BA	Device ID	Network ID
P2280_001DAA0CB609	3	2
PQ2121xb_1449BC50673D	Model Name	Device Name
Q2121x_1419BC506AA4	VigorSwitch G2280x	G2280x_001DAA43C7BA
A NetFlow(0)	Note 1	Note 2
	Serial number	MAC Address
		001DAA43C7BA
	Location	CPE Client IP
		192.168.105.181
	Phone No.	CPE Client Port
		8069
Delete Devices	Domain Name	CPE Client URI
		/cwm/CRN.html

ltem	Description
Delete This Device	Click to remove the selected CPE from current group.
Change Network	Click to change the network for the selected CPE.

	+ Change Network
General Settings	Move the mouse cursor on the network you want and click <b>Apply</b> .
Status	<b>Disable</b> – The selected device will be hidden on the tree view. <b>Enable</b> – The selected device can be displayed on the tree view.
Known Device	<b>Known</b> – The selected CPE is known( ^(L) ) to VigorConnect. <b>Unknown</b> – If the selected CPE is new added device, it will be identified as Unknown.
Network ID	Displays the ID number of the network.
Model Name / Device Name	<ul> <li>Model Name – Display the model name of the selected device. Model name cannot be changed.</li> <li>Device Name – Display the name of the device for identification. It can be changed if required.</li> </ul>
Note 1 / Note 2	Note 1 – Displays brief description for the selected device. Note 2 – Displays brief description for the network.
Serial number / MAC Address	<b>Serial number</b> – Enter a number for identification of the device. <b>MAC Address</b> – Display the MAC address of the device.
Location	Displays the position of the device.
Phone No.	It is optional and is used to offer additional information for reference. If required, Enter a phone number for such device.
Domain Name	Enter a domain name for a CPE. Later, simply click the domain name to access into the CPE.
Management Port	Displays a number for management port. If required, click the Edit button to enter a port number that will be used for accessing into the web user interface of the CPE.
Management Protocol	Choose CEP default, HTTPS or HTTP.
CPE Client IP / Port / URI	Display the IP address, port number and URI.
CPE Client User Name / Password	Display the username and password that VigorConnect can use to access into the CPE.
	Edit - Click to change the username and password.

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# **Chapter 7 Maintenance Menu**

Settings in Maintenance can be applied onto numerous TR-069 CPEs instead of configuring settings for each CPE one by one.



# 7.1 Scheduled Backup

#### 7.1.1 Networks & Devices

This page is used to specify a backup profile for the device / network. Later, the configuration backup for the device/network will be executed automatically by VigorConnect.

Networks & Devices Backup Sett	tings Profile				
Name	File Type		Backup Setting		
🖌 😵 Root Network(7)	Configuration File		Disabled	~	
Manual_Carrie(0)	Configuration File		As Parent	~	
PQ2121xb_1449BC50673D	Configuration File		As Parent	~	
P2280_001DAA0CB609	Configuration File		As Parent	~	
🙆 G2280x_001DAA43C7BA	Configuration File		As Parent	~	
AP 1000C_001DAA04F06C	Configuration File		As Parent	~	
AP 903_00507FF19216	Configuration File		As Parent	~	
<b>@</b> Q2121x_1449BC506AA4	Configuration File		As Parent	~	
G1280_001DAA0D07F0	Configuration File		As Parent	~	

These parameters are explained as follows:

ltem	Description
File Type	Display the file type used for the device.
Backup Setting	Choose a profile defined in <b>Backup Settings Profile</b> for applying onto the selected CPE.
	<b>As Parent</b> - The backup setting for the selected network / device is the same as the top setting.
	<b>Disabled</b> - No backup setting for the selected network / device.
	<b>Default</b> - Use the default backup setting for the selected network / device.
Save	Save the current settings.

#### 7.1.2 Backup Settings Profile

This page determines the trigger time and method for firmware backup.

Maintenance / S	cheduled Backup				
Networks & Devices	Backup Settings Profile				
+ Add					
Name	Period(Days)	Туре	Time Interval	Action	
Default	1	The Last 20	Now	🖉 Edit	🗊 Delete

ltem	Description
+Add	Click to create a new profile.
Edit	Click to modify, change the selected profile.
Delete	Click to delete the selected profile.

The following setting page appears when **+Add** is clicked.

works & Devices Backup Settings Profile     Name     Backup Period(days)     1     Keep Files     The Last 20     All     Backup Time     Now   Scheduled Profile     default
Backup Period(days)     1       Keep Files     The Last 20     All       Backup Time     Now     Scheduled     Schedule Profile
Keep Files     The Last 20     All       Backup Time     Now     Scheduled       Scheduled     Schedule Profile
Backup Time Now Scheduled Schedule Profile
ichedule Profile
× Cancel

ltem	Description
Name	Enter a name of the backup profile.
Backup Period(days)	The number typed here means the interval for the backup executed by VigorConnect. The unit is "day". If you type 1, that means the backup will be executed one time by one day.
Keep Files	Choose to keep all of the files (configuration files) or the last 20 files.
Backup Time	Set a time interval for executing the backup work for networks and devices.
	• <b>Now -</b> The backup work will be executed immediately after clicking the Save button.
	• <b>Scheduled</b> - The backup work will be executed at the specified time and date after clicking the Save button.
	• <b>Schedule Profile</b> - The backup work will be executed according to the selected schedule profile after clicking the Save button.
Scheduled	Select time Start Time / End Time - Click Select time to display a clock. Set the hour and minutes by clicking the number on the clock.
	<b>Specify Start Date</b> – Click to enable the time setting.
	<b>Date</b> – Click to pop up a calendar to choose a date as the starting date.

	2023	3-03-08	8					~	-		
	<	Mar		<b>~</b> 2	023	~	>				
	Su	Мо	Tu	We	Th	Fr	Sa				
				1	2	3	4	_			
	5	6	7	8	9	10	11				
	12	13	14	15	16	17	18				
	19	20	21	22	23	24	25				
	26	27	28	29	30	31					
r		ssword_v ssword_ vizard					~				
re b d tu tu tu	eboot_w estore_v ackup_v lefault est1 est2 est3 est4	vizard									

# 7.2 Configuration Restore

#### 7.2.1 Apply to Devices

This page can determine which device or network will be applied with restore profiles. Later, the configuration restoration for the device/network will be executed automatically by VigorConnect.

O Root Network(7)     O Manual_Carrie(0)	
Manual_Carrie(0)	
@ PQ2121xb_1449BC50673D	
• P2280_001DAA0CB609	Default
@ G2280x_001DAA43C7BA	
● AP 1000C_001DAA04F06C	
@ AP 903_00507FF19216	
@ Q2121x_1449BC506AA4	
@ G1280_001DAA0D07F0	
@ G1280_001DAA0D07F0	

These parameters are explained as follows:

ltem	Description
Apply	Click the icon to enable configuration restoration for the selected CPE.
File List	Open a dialog to choose one of the files for the file restoration of the selected CPE.
	Select a config file ×
	Filename &? Property 37 Size Last Modified 37 File Path 37
	<ul> <li>Directory</li> <li>0 Byte</li> <li>01/18/2023 14:16:13</li> <li>,RootGroup</li> </ul>
	<ul> <li>Notice:</li> <li>To restore a CFG file from a different model, please make sure the firmware on both devices is up to date.</li> <li>To apply ACL CFG file to APs, please make sure the firmware version is 1.2.5 or newer. With old firmware, your AP might be reset to factory settings, so the selected AP with old firmware will be ignored automatically.</li> </ul>
	<ul> <li>To restore a CFG file from a different model, please make sure the firmware on both devices is up to date.</li> <li>To apply ACL CFG file to APs, please make sure the firmware version is 1.2.5 or newer. With old firmware,</li> </ul>
Restore Profile	To restore 2 CFG file from a different model, please make sure the firmware orbit devices is up to date.     To apply ACL CFG file to APs, please make sure the firmware version is 1.2.5 or newer. With old firmware, will be ignored automatically.     Source AP might be reset to factory settings, so the selected AP with old firmware will be ignored automatically.     Klose
Restore Profile	<ul> <li>To restore a profile defined in <b>Restore Settings Profile</b> for applying onto the selected CPE.</li> </ul>
Restore Profile	<ul> <li>To restore 2 CFG file from a different model, phese make sure the firmware overhold devices is up to date.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> <li>To apply ACL CFG file to APs, please make sure the firmware will be ignored automatically.</li> </ul>

#### 7.2.2 Restore Settings Profile

This page can determine the trigger time and method for firmware restoration.

Add     Trigger Profile     Time Interval     Action       sult     default     Now     Ø Edit     Delete
ault default Now 🖉 Edit 🗈 Defete

#### These parameters are explained as follows:

ltem	Description
+Add	Click to create a new profile.
Name	Displays the name of the restore setting profile.
Trigger Profile	Displays the time schedule selected for the restore setting profile.
Time Interval	Displays the time period to trigger the setting restoration.
Action	Edit - Click to modify, change the selected profile.
	<b>Delete</b> - Click to delete the selected profile.

The following setting page appears when **+Add** is clicked.

ly to Devices Restore Settings Profi	le							
	_							
ame								
							0.01	
estore Time	No	w	Sched	belu	50	hedul	e Profile	
	Star	t Time			End	Time		
	Se	ect tim	e.	-	Sel	ect tim		
pecify Start Date	0							
Pate	202	3-03-08	8					
	<	Mar		~ 2	023	v	>	
	Su	Мо	Tu	We	Th	Fr	Sa	× Can
				1	2	3	4	
		6	7	8	9	10	11	
	5			15	16	17	18	
	5	13	14	15				
		13 20				24	25	

ltem	Description
Name	Enter a name of the restore setting profile.
Restore Time	Set a time interval for restoring the configuration settings for networks and devices.
	• <b>Now -</b> The setting restoring work will be executed immediately after clicking the Save button.
	<ul> <li>Scheduled - The setting restoring work will be executed at the specified time and date after clicking the Save button.</li> </ul>
	<ul> <li>Schedule Profile - The setting restoring work will be executed according to the selected schedule profile after clicking the Save button.</li> </ul>

Now	The con	figuratio	on rest	tore w	ill be e	execute	d after cl	icking <b>Save.</b>		
Scheduled	and min	00:00 23 00 11 12 1 8 7 6 5 19 18 me Start D	clickir 3 2 14 3 15 4 16 .7 Select times ate - 0	Profile Click to	numb	er on t	he clock. time setti	lay a clock. Set the ng. e as the starting da		
	<	Jan		<b>~</b> 2	022	~	>			
	Su	ı Mo	Tu	We	Th	Fr	Sa			
							1			
	2	3	4	5	6	7	8			
	9	10	11	12	13	14	15			
	16	5 17	18	19	20	21	22			
	23	3 24	25	26	27	28	29			
	30	31								
Schedule Profile	which, V res res res bac	Trigger Profile – Choosing a trigger profile from the drop down list. In which, VigorConnect offers default schedule profile. reset_password_wizard resot_wizard restore_wizard backup_wizard default								
Cancel	Discard	current	settin	gs and	l retur	n to th	e previou	is page.		

# 7.3 Firmware Upgrade

When VigorConnect server receives information from CPE about firmware upgrade, it will check if the received model name, modem firmware version, and software version correspond to the information recorded in VigorConnect server. If everything can match but software version not, VigorConnect will judge that the remote CPE requiring firmware upgrade. Next, VigorConnect server will execute firmware upgrade with the file listed in Job List automatically at specified time.

This web page allows you to **specify** required information for matching with the CPE device. The profiles created here will be regarded as a basis that VigorConnect server uses to compare information coming from CPE router with the information stored in VigorConnect server's database.

(i) The firmware upgrade profile created in such page can be applied to single and selected devices (but not applied to the whole network).

Add New Job   Peiete All Complete Jobs  me ↓↑ File Path ↓↑ Schedule ↓↑ Device Count ↓↑ Status ↓↑ Result  No data available	UT Action
	11 Action
No data available	

These parameters are explained as follows:

Item	Description
+Add New Job	Click to create a new job profile.
Delete All Complete Jobs	Click to delete all profile.
Edit	Click to edit / modify the settings for the selected profile.
Delete	Click to delete the selected profile.

The following setting page appears when **+Add New Job** is clicked.

Maintenance / Firmware Up	grade		
irmware Upgrade Job Se	ettings		
Name			
Status	Disable Enable		
Upgrade Time	Now Scheduled		
	Start Time	End Time	
	Select time	Select time	
Date	Select a date		
Apply Firmware			
Device to Upgrade ⊽			
Name	MAC Address Model Na	me Firmware Version	
Root Network(7)	Prior Audicess Model Hal		
Manual_Carrie(0)     O     Carrie(0)     Carrie(0			

Name Status Upgrade Time	<ul> <li>Enter a name of the job profile.</li> <li>Click Enable to activate the firmware upgrade profile.</li> <li>Set a time interval for executing the firmware upgrade job for networks and devices.</li> <li>Now - The firmware upgrade job will be executed immediately after clicking the Save button.</li> <li>Scheduled - The firmware upgrade job will be executed at the specified time and date after clicking the Save button.</li> </ul>
Upgrade Time	<ul> <li>Set a time interval for executing the firmware upgrade job for networks and devices.</li> <li>Now - The firmware upgrade job will be executed immediately after clicking the Save button.</li> <li>Scheduled - The firmware upgrade job will be executed at the specified time and date after clicking the Save button.</li> </ul>
	<ul> <li>and devices.</li> <li>Now - The firmware upgrade job will be executed immediately after clicking the Save button.</li> <li>Scheduled - The firmware upgrade job will be executed at the specified time and date after clicking the Save button.</li> </ul>
	<ul> <li>clicking the Save button.</li> <li>Scheduled - The firmware upgrade job will be executed at the specified time and date after clicking the Save button.</li> </ul>
	specified time and date after clicking the Save button.
	Start Time / Fed Time - Click Colort time to display a deal. Cat the barry
Scheduled	Start Time / End Time – Click Select time to display a clock. Set the hour and minutes by clicking the number on the clock.          01:14       01:14         01:14       01:14         01:14       01:14         01:14       01:14         01:14       01:14         01:14       01:14         01:14       01:14

		ct a dat	e					
	<	Mar		<b>v</b> 2	2023	~	>	
	Su	Мо	Tu	We	Th	Fr	Sa	
				1	2	3	4	
	5	6	7	8	9	10	11	
	12	13	14	15	16	17	18	4
	19 14 26	20	21	22	23	24	25	m
	26	27	28	29	30	31		
	Filena  Sh	ne redFirmwar	e		perty	<b>J∱ Size</b> Byte 0 Byte	2	Last Modified         #1         File Path         #1           2023/01/18 14:16:13         .           2023/01/18 14:16:13         ./RootGroup
evice to Upgrade	Click th			on to	set th	e filte	ering	conditions.
	MAG	ce Name Address el ware	All All × C	<ul> <li>✓</li> <li>Cancel</li> </ul>	~ C Appl			ie C 51 52 22
	Device MAC Pirm Vers Device MAC A table. Model Firmw firmwa	ce Name Address el ware ion <b>Nam</b> <b>ddres</b> <b>ddres</b> <b>are V</b> re wil - After	All x c ae - E ss - E ect a l be s c click	nter t nter t mode <b>n</b> – S showr	Q Appl he na he M el of C elect n on t <b>pply</b> ,	ime o AC ad PE. a firm he tal	dres war ole.	e device to be shown on the table. ss of the device to be shown on the e version. CPE with the selected below will show the devices

	provision.		
	Name           ▲ ② Rock Network(7)           ③ Manual.Carris(0)           ④ AP 0000C,001DAA04/00CC           ● AP 000,0000TF13316           ● C1280,001DAA00TF0           ● Q2280,001DAA0CH09	MAC Address         Model Name           001DA004760         VigoxAP 1000           005074719216         VigoxAP 300           001DA400770         VigoxAP 101           001DA400770         VigoxSwitch 6128           001DA400780         VigoxSwitch 728           001DA400780         VigoxSwitch 728	0x 2.8.2
			e model name for identification. ys the firmware version that the model used
	currently.		-
Cancel	Discard current	settings and	d return to the previous page.
Save	Save the curren	nt settings an	d exit the page.

# 7.4 Device Reboot

You can define the time schedule for rebooting the selected CPE(s) automatically by VigorACS. Open **Maintenance>>Device Reboot** to display the following page.

#### 7.4.1 Networks & Devices

This page is used for configuring the reboot setting for network(s) & device(s)

tworks & Devices Reboot Setting	s Profile					
ame	Model Name	Firmware Version	Modem Version	Reboot Setting		
<ul> <li>Root Network(7)</li> </ul>				Disabled	v	
Manual_Carrie(0)				As Parent	~	
PQ2121xb_1449BC50673D	VigorSwitch PQ2121xb	2.8.0_RC2	No DSL	As Parent	v	
P2280_001DAA0CB609	VigorSwitch P2280	2.6.6		As Parent	*	
G2280x_001DAA43C7BA	VigorSwitch G2280x	2.8.2	No DSL	As Parent	~	
AP 1000C_001DAA04F06C	VigorAP 1000C	1.4.4	No DSL	As Parent	Ŷ	
AP 903_00507FF19216	VigorAP 903	1.4.6	No DSL	As Parent	~	
Q2121x_1449BC506AA4	VigorSwitch Q2121x	2.8.1	No DSL	As Parent	Ŷ	
G1280_001DAA0D07F0	VigorSwitch G1280	2.6.6	No DSL	As Parent	~	

ltem	Description
Reboot Setting	Choose a profile defined in <b>Reboot Settings Profile</b> for applying onto the selected CPE.
	<b>As Parent</b> - The reboot setting for the selected network / device is the same as the top setting.
	<b>Disabled</b> - No reboot setting for the selected network / device.
	Default - Use the default reboot setting for the selected network / device.
	<b>Others</b> - In addition to As Parent, Empty and Default, profiles defined in Reboot Settings Profile also will be listed in this drop-down list.
Save	Save the current settings.

#### 7.4.2 Reboot Settings Profile

This page can determine the trigger time and method for device reboot.

Maintenance / D	evice Reboot			
Networks & Devices	Reboot Settings Profile			
+ Add				
Name	Period(Days)	Time Interval	Action	
Default	1	Now	🖉 Edit 🛛 🗊 Delete	

These parameters are explained as follows:

ltem	Description
+Add	Click to create a new device reboot profile.
Edit	Click to edit / modify the settings for the selected profile.
Delete	Click to delete the selected profile.

The following setting page appears when **+Add** is clicked.

Maintenance / De	vice Reboot	
letworks & Devices	Reboot Settings Profile	
Name		
Period (days)	1	
Reboot Time	Now Scheduled	Schedule Profile
	Start Time	End Time Select time
Specify Start Date		
Date	Select a date	

ltem	Description
Name	Enter the name of the profile.
Period(days)	Determine the frequency for the CPE reboot by VigorACS. The default value is 1 day.
Reboot Time	<ul> <li>Set a time interval for executing the device reboot.</li> <li>Now</li> <li>Scheduled</li> </ul>

	• Schedule Profile Now - The device reboot will be executed					
	immediately after clicking the Save button.					
	• <b>Scheduled</b> - The device reboot will be executed at the specified tin					
	<ul> <li>and date after clicking the Save button.</li> <li>Schedule Profile - The device reboot will be executed according</li> </ul>					
	the selected schedule profile after clicking the Save button.					
Scheduled	<b>Start Time / End Time –</b> Click <b>Select time</b> to display a clock. Set the he and minutes by clicking the number on the clock.					
	in <b>03</b> :15					
	23 00 13					
	22 11 12 1 14					
	$20 \xrightarrow{8} 7 \xrightarrow{4} 16 \xrightarrow{9}$ Profile					
	19 18 17					
	03:15 Select time					
	<b>Specify Start Date</b> – Click to enable the time setting.					
	<b>Date</b> – Click to pop up a calendar to choose a date as the starting date					
	Select a date					
	< Mar v 2023 v >					
	Su Mo Tu We Th Fr Sa					
	5 6 7 8 9 10 11					
	12 13 14 15 16 17 18					
	12     13     14     13     16     17     18       19     20     21     22     23     24     25					
	A 26 27 28 29 30 31					
	20 21 20 29 30 31					
Schedule Profile	Trigger Profile – Choosing a trigger profile from the drop down list. In which, VigorConnect offers default schedule profile.         reset_password_wizard					
	reset_password_wizard					
	reboot_wizard					
	restore_wizard backup_wizard					
	default					
	test1 test2					
	test2					
	test4					
Cancel	Discard current settings and return to the previous page.					
Save	Save the current settings.					
5470						
# 7.5 Schedule Profile

Schedule profiles can be set to apply to devices managed by VigorConnect. Later, you can not only schedule the router to dialup to the Internet at a specified time, but also restrict Internet access to certain hours so that users can connect to the Internet only during certain hours, say, business hours. The schedule profile is applicable to several functions driven by VigorConnect.

Maintenance Add	/ Schedule Profile				
lame	Start Day	End Day	Start Time	End Time	Action
default			00:00	00:00	🖉 Edit 🛛 🗊 Delete

These parameters are explained as follows:

ltem	Description
+Add	Click to create a new schedule profile.
Edit	Click to modify, change the selected profile.
Delete	Click to delete the selected profile.

The following setting page appears when **+Add** is clicked.

Maintenance / Schedule Pro	ofile				
Profile Name					
Date Type	Scheduled ~	~			
Start Date	Select a date				
Check End Date					
End Date	Select a date				
Time Type	Scheduled ~	~			
Start Time	Select time				
End Time	Select time				
					× Cancel
		_			

ltem	Description
Profile Name	Enter a name of the schedule profile.
Date Type	VigorConnect will perform the job for the selected CPE (s) according to the schedule set here.
	<b>Now</b> – When CPE meets settings configured in the profile, the job (e.g.,

	upgrade) for the CPE will be performed immediately.
	<b>Schedule</b> – To specify a certain day to perform the job, choose this one and specify start day and end day respectively.
Start Day	Use the drop down calendar to specify the day you want to start the operation.
Check End Day	Click to enable the end day to determine if the job is performed or not. For example, the end day for firmware upgrade is out of date, then the upgrade will not be executed for the selected CPE.
End Day	Use the drop down calendar to specify the day you want to end the operation.
Time Type	<b>Now</b> – When CPE meets settings configured in the profile, the job (e.g., upgrade) for the CPE will be performed immediately.
	<b>Schedule</b> – To specify a certain time to perform the job, choose this one and specify start time and end time respectively. VigorConnect will perform the job for the selected CPE (s) according to the schedule set here.
Start Time	Use the drop down menu to specify the hour and minutes you want to start the operation.
End Time	Use the drop down menu to specify the hour and minutes you want to finish the operation.
Cancel	Discard current settings and return to the previous page.
Add	Save the current settings and create a new profile.

# 7.6 File Manager

Firmware driver, configuration file for devices (VigorAP or Vigor switches) can be managed or classified with different folders.

Maintena	nce / File Manager							
윤 Upload	🖧 Download 🗎 Delete 🕂 N	lew Folder						DrayTek FTP
							Search.	
	Filename	1 Property	J↑	Size	$\downarrow \uparrow$	Last Modified	$\downarrow\uparrow$	File Path
	SharedFirmware	Directory				2023/01/18 14:16:13		./RootGroup

Description	
Click to upload a file to VigorConnect server.	
Lupload File ×	
Browse Arrowse	
× Cancel ✓ Apply	
Download a driver (*.all, *.rst and etc.) related to CPE device from V 3 server.	igorACS
Click to delete the selected profile.	
Create folders for files classification/management.	
file from DrayTek FTP directly.  Maintenance / DrayTek FTP  Download  C Backto L	ocal Files
	Click to upload a file to VigorConnect server.

This page is left blank.

# Part IV Network Menu for Root Network



# **Chapter 8 Root Network Menu**

Network contains two types, Root Network and User-defined Network. Use the drop-down menu on the top of the left side to select a network.



On the dashboard for root network, the Network menu contains:



# 8.1 Dashboard for the Root Network

Dashboard shows the statistics of network overview, active clients and new devices.

Root Network	~			<b>Dray</b> Tek	v	igorConnect	System Time 14:48 02/03/2023	system Administrator
Root Network							Aut	o Refresh: 1 Minute 👻 C 🔇
Device Overview				≡ Categor	y-	New Devices		≡ Unmanaged Device:
Device Name	Model	мас	UP Time	Firmware Version	LA	Select / Deselect All	search Device Name / IP / MAC	
AP 1000C_001DAA04F06C AP 903_00507FF19216	VigorAP 1000C VigorAP 903	001DAA04F06C 00507FF19216			0	Action WebLogin@IP	Device Name	Device Type
G2280x_001DAA43C7BA	VigorSwitch G2280x	001DAA43C7BA			0		No data available	
P2280_001DAA0CB609 PQ2121xb_1449BC50673D	VigorSwitch P2280 VigorSwitch PQ2121xb	001DAA0CB609 1449BC50673D			0			
-			3	44 44 1/1 >> >>				QDiscover
Active Clients- Top10+				Last 24 hour	<b>15</b> -			
1				o Total				
Total Current:0	08.	20						
PQ2121xb_1449BC506731	D Current:0							
AP 903_00507FF19216	Current:0							
AP 1000C_001DAA04F06C	Current:0							

# 8.2 Monitoring Menu

Monitoring menu offers options for monitoring the normal and abnormal actions for root network, and CPE.

This section offers Monitoring menu items for the root network.



#### 8.2.1 Alarm

Alarm message will be recorded on VigorConnect server when there is a trouble happened to the device (CPE). Only the users within the same user group will be notified for the message.

arch	No. / Devi	ce Name / MAC		Time Interval : 2023/02/	06 to 2023/03/08			
larr	n 🔽	History						
0 <u>4</u> E	xport All	🗊 Delete	🗇 Delete All				И < 1	/1 > № C
	No.	Ack Status	Time	Device Name	MAC Address	Alarm Level	Alarm Message	Alarm Type
	17	Not Ack	2023-03-07 16:36:37	G1280_001DAA0D07F0	001DAA0D07F0	A Critical	Device Loss Connection	Device Loss Connection
	16	Not Ack	2023-03-03 13:59:12	Q2121x_1449BC506AA4	1449BC506AA4	A Critical	Device Loss Connection	Device Loss Connection
	15	Not Ack	2023-02-23 13:53:17	AP 1000C_001DAA04F06C	001DAA04F06C	\Lambda Critical	Device Loss Connection	Device Loss Connection
	14	Not Ack	2023-02-23 13:48:47	G2280x_001DAA43C7BA	001DAA43C7BA	🔥 Critical	Device Loss Connection	Device Loss Connection
	13	Not Ack	2023-02-17 17:26:22	AP 903_00507FF19216	00507FF19216	▲ Critical	Device Loss Connection	Device Loss Connection
	12	Not Ack	2023-02-17 17:21:52	PQ2121xb_1449BC50673D	1449BC50673D	\Lambda Critical	Device Loss Connection	Device Loss Connection
	11	Not Ack	2023-02-17 15:02:22	P2280_001DAA0CB609	001DAA0CB609	A Critical	Device Loss Connection	Device Loss Connection

Item	Description	
------	-------------	--

Alarm / History	Alarm – Display the alarm records recently.
	<b>History</b> – Display all the alarm records that have been solved and cleared.
Export All	Click this button to save alarm log as a XLS file.
Delete	Clear the alarm record which has been solved by VigorConnect.
Delete All	Clear all of the alarm records which have been solved by VigorConnect.
No.	Display the index number of the alarm. It is offered by VigorConnect automatically.
Ack Status	Display the status of the records with the type specified here (Not Ack or Acked).
Time	Displays the time of the device to be monitored.
Device Name	Displays the name of the monitored device.
MAC Address	Displays the MAC address of the monitored device.
Alarm Level	Displays the alarm message with the severity (e.g., Critical) specified.
Alarm Message	Displays a brief explanation for the alarm sent by VigorConnect automatically.
Alarm Type	Displays the alarm message with the type specified.

#### 8.2.2 VPN

#### 8.2.2.1 VPN

This page displays various information (user name, VPN type, connection type, public IP, virtual IP/network, direction, status, start time, uptime, location, VPN profiles and etc.) by analyzing the VPN Log collected from the routers.

Root Network	~			Dro	y Tek	VigorConnect				m Time 2 12/04/2023	System Ad	iminist	root	R
Monitoring / Vi	PN													
Device: 192.168	3.105.17 (vpn1)	~ Toda	y This Week	This Month	This Year 5	Set Time Interval	Start:	2023/03/13	End:	2023/04/12				
VPN Firewall														
Jan S M T W T F S	Feb			May	Jun	Jul		Aug	Sep	Oct	Nov		Ţ	lec.
VPN Type All User Name 41	VPN S	tatus All 👻	User Name / Public	P/Local P/Lo dt Virtual IP		a) 라 Direction가	Status 🕂	Start Time	47	it Up Time 31			Di VPN Pr	
VPN Type All		tatus All 👻	User Name / Public	Ut Virtual IP		41 Direction 11	Status i† Online	Start Time 2023/03/23.03				41		
VPN Type All	VPN Туре 🕸	tatus All v	User Name / Public	Ut Virtual IP	/ Network	41 Direction 11			:26:58	Up Time 斗	Location	41 W	VPN Pr	
VPN Type All User Name 4t rd3_wireguard	VPN Type	ConnectionType CLAN To LAN	User Name / Public It Public IP 111.249.88.36	41 Virtual IP 172.17.5	/Network	바 pirection과 Dial-In	Online	2023/03/23.03	1:26:58	up Time 41 487:45:34	Location Hsinchu,Tahwan,T	47 W	VPN P	
VPN Type All User Name 4t rd3_wireguard rd3_wireguard	VPN Type	tatus All ~ ConnectionType - LAN To LAN LAN to LAN	User Name / Poblic #* Public IP 111.249.88.36 111.249.88.36	Urtual IP           172.17.5           172.16.1	/ Network .0/255.255.255.0 9.247	4† Direction.4† Dial-In Dial-In	Online Offline	2023/03/23.03 2023/03/23.03	1:26:58 1:25:13 1:09:00	Up Time 41 487:45:34 00:01:39	Location Hsinchu,Taiwan,T Hsinchu,Taiwan,T	Jt W W	<b>VPN P</b> 7 7	
VPN Type All User Name 4t rd3_wireguard rd3_wireguard wireguard_247	VPN Type WireGuard WireGuard WireGuard	LAN TO LAN LAN TO LAN Host TO LAN	User Name / Public Public IP 111.249.88.36 111.249.88.36 111.251.217.31	4t Virtual IP 172.17.5 172.16.1 172.17.3	/ Network .0/255.255.255.0 9.247 .0/24	4↑ Direction↓↑ Dial-In Dial-In Dial-In	Online Offline Online	2023/03/23 03 2023/03/23 03 2023/03/23 03	1:26:58 1:25:13 1:09:00 1:46:06	Up Time 41* 487:45:34 00:01:39 488:03:32	Location Hsinchu,Tahwan,Ti Hsinchu,Tahwan,Ti Hsinchu,Tahwan,Ti	4t w w w	<b>VPN P</b> 7 7 168	
VPN Type All User Name 4t rd3_wireguard rd3_wireguard wireguard_247 RD6	VPN Type WireGuard WireGuard WireGuard IPSEC/IKE	ConnectionType J LAN TO LAN LAN TO LAN LAN TO LAN Host TO LAN LAN TO LAN	User Name / Public IP Public IP 111.249.88.36 111.249.88.36 111.249.27.31 220.135.243.71	It         Virtual IP           172.17.5         172.16.1           172.17.3         172.16.1	/ Network .0/255.255.255.0 9.247 .0/24 9.251	Jt Direction.Jt Dial-In Dial-In Dial-In Dial-In	Online Offline Online Offline	2023/03/23 03 2023/03/23 03 2023/03/23 03 2023/03/23 02	1:26:58 1:25:13 1:09:00 1:46:06 1:30:07	Up Time 41 487:45:34 00:01:39 488:03:32 00:10:09	Location Hsinchu,Taiwan,Ti Hsinchu,Taiwan,Ti Hsinchu,Taiwan,Ti Hsinchu,Taiwan,Ti	41 W W W W	VPN P 7 168 3	
VPN Type All User Name 4 rd3_wireguard rd3_wireguard wireguard_247 RD6 wireguard_251	VPN Type WireGuard WireGuard IPSEC/IKE WireGuard	LATUS ALI  ConnectionType 2 LAN To LAN LAN TO LAN Host To LAN Host To LAN Host To LAN	User Name / Public Public IP 111.249.88.36 111.249.88.36 111.251.217.31 220.135.243.73 111.251.217.31	It         Virtual IP           172.17.5         172.16.1           172.17.3         172.16.1           172.16.1         172.16.1           172.16.1         172.16.1	/ Network .0/255.255.255.0 9.247 .0/24 9.251 9.247	Ut Dial-In Dial-In Dial-In Dial-In Dial-In Dial-In	Online Offline Online Offline Online	2023/03/23.03 2023/03/23.03 2023/03/23.03 2023/03/23.02 2023/03/23.01	1:26:58 1:25:13 1:09:00 1:46:06 1:30:07 1:20:15	Up Time 41 487:45:34 00:01:39 488:03:32 00:10:09 489:42:25	Location Hsinchu,Taiwan,JT Hsinchu,Taiwan,JT Hsinchu,Taiwan,JT Hsinchu,Taiwan,JT	4t W W W W W	VPN P 7 7 168 3 164	
VPN Type All User Name 41 rd3_wireguard rd3_wireguard_247 RD6 wireguard_251 wireguard_251	VPN Type WireGuard WireGuard BPSEC/IKE WireGuard WireGuard	ConnectionType 2 LAN TO LAN LAN TO LAN LAN TO LAN Host TO LAN Host TO LAN Host TO LAN	User Name / Public Public IP 111249.88.36 111.249.88.36 111.249.88.36 111.251.217.31 111.251.217.31 111.251.217.31	<ul> <li>Virtual IP</li> <li>172.17.5</li> <li>172.16.1</li> <li>172.16.1</li> <li>172.16.1</li> <li>172.16.1</li> <li>172.16.1</li> <li>172.16.1</li> </ul>	/ Network .0/255.255.255.0 9.247 .0/24 9.251 9.247 .0/24	If         Direction If           Dial-In         Dial-In           Dial-In         Dial-In           Dial-In         Dial-In           Dial-In         Dial-In	Online Offline Online Offline Online	2023/03/23 03 2023/03/23 03 2023/03/23 03 2023/03/23 02 2023/03/23 01 2023/03/23 01	1:26:58 1:25:13 1:09:00 1:46:06 1:30:07 1:20:15 1:16:54	Up Time 31 487:45:34 00:01:39 488:03:32 00:10:09 489:42:25 02:45:48	Location Hsinchu,Taiwan,T Hsinchu,Taiwan,T Hsinchu,Taiwan,T Hsinchu,Taiwan,T Hsinchu,Taiwan,T	41 W W W W W W W	VPN Pr 7 168 3 164 168	

ltem	Description
Device	Use the drop-down menu to select a device (router).
Today, This Week, This Month, This Year	Click each tab (different period) to display information about the selected device.
Set Time Interval	Click to set the time interval to display information about the selected device.
VPN Type	The default is All. Select the type to display information about the selected device.
VPN Status	The default is All. Select the status (all, offline, online) to display information about the selected device.

#### 8.2.2.2 Firewall

This page displays the firewall information (time, action, username, direction, firewall rule, source IP, source port, destination IP, destination port, service, protocol, repeat and etc.) by analyzing the VPN Log collected from the routers.

Root Network	~)			Dray	Tek VigorConnect		System 14:22	12/04/2023	Syste	em Administ	root trator
Monitoring / VPN											
Device: 192.168.10	(vpn1) (vpn1)	~ T	oday This Week	This Month Thi	s Year Set Time Interval	Start: 2023/0	3/13 End: 20	23/04/12			
VPN Firewall											
⊖ Jan	Feb	Mar	Apr	May	Jun Jul	Aug	Sep	Oct		Nov	
8											
т											
w		ĕ									
т		-									
F											
S Action All ~	User Name / Sou	utçe B ¹ / Destinu	tion IP / Service / Source I	Port / Destination P	at 00			И	< 1	/174 >	Di
Action Alt ~	Uset Name / Sou It Action It	ace IP / Dectina User Name 4		Port / Destination P		41 Source Port	t Dest IP. 4t		< 1 service 4	WOON IN	
Action Alt ~				41 Firew			† Dest IP 4† 172.16.2.8		< 1 service 4 email	WOON IN	
Action All ~	It Action It	User Name	† Direction	3† Firew T/VPN 2-8	all Rule 🕂 Source IP	11015		Dest Port		Protocol	41 Re
Action All ~ ( Time 2023/03/22 22:06:43	It Action It	User Name 4	T Direction	It         Firew           CT/VPN         2-8           CT/VPN         2-8	all Rule 41 Source IP 172.16.19.112	11015 11004	172.16.2.8	Dest Port 4	email	TCP	11 Re
Action All ~ [ Time 2023/03/22 22:06:43 2023/03/22 22:06:22	Pass Pass	User Name 4 dBn1 dBn1	Direction     LAN/RT/VPN->LAN/R     LAN/RT/VPN->LAN/R	It         Firew           T/VPN         2-8           T/VPN         2-8           T/VPN         2-8	all Rute 41 Source IP 172.16.19.112 172.16.19.112	11015 11004 10987	172.16.2.8 172.16.2.8	Dest Port # 995 995	email	TCP	41 Re 1
Action All  Time 2023/03/22 22:06:43 2023/03/22 22:06:22 2023/03/22 22:05:54	Pass Pass Pass Pass	User Name 4 din1 dBn1 dBn1	Direction LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R	If         Firew           T/VPN         2-8           T/VPN         2-8           T/VPN         2-8           T/VPN         2-8           T/VPN         2-8           T/VPN         2-8	all Rute ++ source IP 172.16.19.112 172.16.19.112 172.16.19.112	11015 11004 10987 10980	172.16.2.8 172.16.2.8 172.16.2.8	Dest Port ↓ 995 995 465	email email	TCP TCP TCP	41 Re 1 1
Action All  Time 2023/03/22 22:06:43 2023/03/22 22:06:54 2023/03/22 22:05:54 2023/03/22 22:05:54	Pass Pass Pass Block	User Name 4 din1 din1 din1 din1 din1	Direction LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R	1         Firew           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.5           T/VPN         2.8	all Rute 11 Source IP 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112	11015 11004 10987 10980 10714	172.16.2.8 172.16.2.8 172.16.2.8 172.16.0.1	Dest Port # 995 995 465. 80	email email HTTP	TCP TCP TCP TCP TCP	11 n 1 1 1 1
Action All  Time 2023/03/22 22:06:43 2023/03/22 22:06:43 2023/03/22 22:05:54 2023/03/22 22:05:56 2023/03/22 12:51:39	Pass Pass Pass Block Pass	User Name 4 din1 din1 din1 din1 din1 din1	Diffection LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R LAN/RT/VPN->LAN/R	11         Fireway           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.5           T/VPN         2.8           T/VPN         2.5           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8	All Rule 47 Source IP 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112	11015 11004 10987 10980 10714 10707	172.16.2.8 172.16.2.8 172.16.2.8 172.16.0.1 172.16.2.8	Dest Port # 995 465 80 995	email email HTTP email	TCP TCP TCP TCP TCP TCP	+† Re 1 1 13 13
Action All  Time 2023/03/22 22:06:43 2023/03/22 22:06:43 2023/03/22 22:05:44 2023/03/22 22:05:36 2023/03/22 18:51:39 2023/03/22 18:56:39	Pass Pass Pass Pass Block Pass Pass	User Name 4 din1 din1 din1 din1 din1 din1 din1	<ul> <li>Direction</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> <li>LAN/RT/VPN-&gt;LAN/RT</li> </ul>	11         Fireway           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.5           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8           T/VPN         2.8	Alt Rute 47 Source IP 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112 172.16.19.112	11015 11004 10987 10980 10714 10707 10690	172.16.2.8 172.16.2.8 172.16.0.1 172.16.0.1 172.16.2.8 172.16.2.8	Dest Port 4 995 995 465 80 995 995	email email HTTP email email	TCP TCP TCP TCP TCP TCP TCP	1 1 1 1 1 1 1 1

These parameters are explained as follows:

ltem	Description
Device	Use the drop-down menu to select a device (AP or switch).
Today, This Week, This Month, This Year	Click each tab (different period) to display information about the selected device.
Set Time Interval	Click to set the time interval to display information about the selected device.
Action	The default is All. Select the action (all, pass, block) to display information about the selected device.

#### 8.2.3 Logs

Log provides administrator records for action executed, device name, MAC address, Device IP, CommandKey, and Current Time for CPE device managed and monitored by VigorACS.

	export All	🗇 Delete 💼 Delete All					N < 1	/4 > № C 1
	ID	Device Name	Device ID	MAC Address	Device IP	Action	Action ID	Time
]	407	G1280_001DAA0D07F0	7	001DAA0D07F0	192.168.105.251	Set Parameter Values	39	2023-03-06 15:32:49
3	259	G1280_001DAA0D07F0	7	001DAA0D07F0	192.168.105.251	Set Parameter Values	38	2023-03-03 13:57:05
]	258	G1280_001DAA0D07F0	7	001DAA0D07F0	192.168.105.251	Set Parameter Values	37	2023-03-03 13:57:00
1	257	G1280_001DAA0D07F0	7	001DAA0D07F0	192.168.105.251	Set Parameter Values	36	2023-03-03 13:57:00
1	256	G1280_001DAA0D07F0	7	001DAA0D07F0	192.168.105.251	Set Parameter Values	35	2023-03-03 13:57:00
3	254	Q2121x_1449BC50GAA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	34	2023-03-03 13:51:12
2	253	Q2121x_1449BC506AA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	33	2023-03-03 13:51:07
	252	Q2121x_1449BC506AA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	32	2023-03-03 13:51:07

ltem	Description
Log Туре	Click one of the tabs (e.g., All CPE Actions, Device Reboot, Reboot By CPE, Set Parameter, File Transfer, Device SysLog, CPE Notify, Device Register, Device Operate and etc.) to display related log on this page.
search ID / Device Name / Dr Q	Enter the condition for VigorConnect to search and display relational information.
Export	Click this button to save the log as an XLS file.
Delete	Clear the alarm record which has been solved by VigorACS.
Delete All	Clear all of the alarm records which have been solved by VigorACS.

#### 8.2.4 Devices

The administrator (user) can check information (such as Device name, IP address, MAC address, model name, network, status, up time, firmware version, number of current connected client, data traffic, and so on) of CPE under the selected network group by this page. The network group (e.g., Root Network in this case) selected above is the group to be monitored and information related to this selected network group will be shown below.

Simply open **Monitoring>>Devices** to get the following page.

#### 8.2.4.1 Device Overview

Device Overview Topole	ogy Overview														
search Device Name / IP / MAC	Model	VigorAP 1000C, Viş	Status	All	~ SSID	All		~							
							Rows	10 ~	И	<	1 /1	>	DI	C (	۲
A Export										Gener	al		Wirele:	iS	
Device 14	IP Address	UT MAC	ddress	ψţ.	Model	14	Networ	k	41	Status	Up Tim	ie ⇒↑	F/W Vers	on	4
PQ2121xb 1449BC50673D	192.168.105.202:4	43 1449	BC50673D		VigorSwitch PQ2121xb		Root N	etwork		offline	****		2.8.0_R	20	
P2280_001DAA0CB609	192.168.105.186:4	43 001D	AA0CB609		VigorSwitch P2280		Root N	etwork		offline			2.6.6 📀		
G2280x 001DAA43C7BA	192.168.105.181:4	43 0010	AA43C7BA		VigorSwitch G2280x		Root N	etwork		offline			2.8.2 🥏		
AP 1000C 001DAA04F06C	192.168.105.185:4	43 001D	AA04F06C		VigorAP 1000C		Root N	etwork		offline	***		1.4.4 😋		
	192.168.105.188:4	43 0050	7FF19216		VigorAP 903		Root N	etwork		offline			1.4.6 📀		
AP 903 00507FF19216		42 1449	BC506AA4		VigorSwitch Q2121x		Root N	etwork		offline	****		2.8.1 🔿		
AP 903_00507FF19216 Q2121x_1449BC506AA4	192.168.105.212:4	42 1443													

ltem	Description
Bearch Device Name / IP / MAC	Enter the condition for VigorConnect to search and display relational information.
Model	This area lists all of the devices that monitored by VigorConnect.
Status	<b>Online</b> – This page displays information for the device which is online currently.
	<b>Offline</b> – This page displays information for the device which is offline currently.
	<b>All</b> – This page displays information for all of the devices no matter it is online or offline.
SSID	This area lists information for CPE with wireless features monitored by VigorACS.
	Check <b>All</b> to display all of the devices; or check the name of the device to display the information related to the selected device.
	<b>SSID</b> - SSIDs for CPE with wireless features will be displayed in this drop down list. Choose one of the SSIDs. Information related to the selected SSID will be displayed on this page.
Export	Click this button to save information for monitored devices as an XLS file.
General / Wireless	<b>General</b> – List the general information for the CPE under the selected group.
	<b>Wireless</b> – List only the wireless information for the CPE under the selected group.

#### 8.2.4.2 Topology Overview

This page shows the LLDP protocol information collected by **VigorSwitch**.



#### 8.2.5 Floor Plan

This function is helpful to determine the best location for VigorAP in a room. A floor plan of a room is required to be uploaded first. By dragging and dropping available VigorAP icon from the list to the floor plan, the placement with the best wireless coverage will be clearly indicated through simulated signal strength.

Monitoring / Floor Plan						
+ Add						88
Profile Name	40	Devices		41	Action	
			No data available			

ltem	Description					
+Add	Creates a new profile.					
80	Click to change to browse view. It displays all of the floor plan profiles with the map used.					
	Monitoring / Floor Plan					
	bedroom ajog	0 tie	¢	<b>Q</b> Add		
				NI K <b>II</b> /1 > D		
	You can click <b>Add</b> on this page existed profile, click the icon o Then click <b>Edit Map &amp; Plan</b> to <b>Map Profile</b> to remove the sel	n the right-top perform the r	to display a on to display a on to display a on the second s	drop down me		
	existed profile, click the icon o Then click <b>Edit Map &amp; Plan</b> to <b>Map Profile</b> to remove the sel	n the right-top perform the r	to display a on to display a on to display a on the second s	drop down me		
	existed profile, click the icon o Then click <b>Edit Map &amp; Plan</b> to <b>Map Profile</b> to remove the sel	n the right-top perform the r	o to display a o nodification, o an profile.	drop down me		

<b>Profile Name</b> Displays the name of the floor plan profile.	
Devices	Displays the number of AP devices placed on the plan profile.
Action	<b>Edit</b> - Click to modify the profile.
	<b>Delete</b> - Click to remove the selected profile.

To create a new profile:

- 1. Click +Add.
- 2. From the following page, enter profile name (e.g., test6688) and click Browse to upload a map (e.g., AP_MAP.png). Click **Continue**.

Profile Name	test6688	~	
Jpload Map	Floor_MAP.png	Browse	
			Cancel Conti
			Cancel Conti

3. Click **Edit** to display the following figure.

Monitoring / Floor Plan Profile Name	test6688	
✔ Edit Dimension + Add	Device	
		*
		Cancel Save

**Edit Dimension** – Draw a line and enter the distance of length / width of the map.

**Add Device** – Click to display available VigorAP to apply it on to the map.

4. Click **+Add Device**. Available VigorAP icons and name list will be displayed on the right side of this page.



5. Select the AP you want from right side of this page. Drag and drop the icon on the map. Later, an icon with effective signal range will be seen on the screen.

Profile Name	test6688	
Edit Dimension + Add	Device	
g and drop a virtual AP or a	n un assigned AP to the floor plan.	
		Open State     Model       Device Name     Model       AP 1000C_001DAA04F06C     VigorAP 1000C       AP 903_00507FF19216     VigorAP 903

6. Slightly click the AP icon on the map. Two links of **Link to an AP** and **Remove Device** will be shown on the right side.



- 1. **Remove Device** If you do not satisfy the location of AP icon, click this link to remove the AP icon from the map.
- 2. **Link to an AP** If you satisfy the location of AP icon, click this link to select VigorAP. All of un-assigned AP names will be shown on the list. Choose the one you want and click Apply. Then such map has been connected with the specified AP.

7. Click **Link to an AP** to select the AP you want. After clicking **Apply**, the name of the VigorAP will be displayed below the icon on the map.



8. Click **Save**. The new created profile will be shown on the page.

Monitoring / Floor Plan				
+ Add				88
Profile Name	47	Devices	UT Action	
test6688		1	@ Edit	Delete

#### 8.2.6 Rogue AP Detection

Information detected by VigorAP can be displayed in this page. In which, the APs will be classified with rogue AP and known AP in different colors.

Click the **Rogue AP** tab to display the following page. All the APs detected will be treated as Rogue AP.

Scan Now	Periodic Scan 🜔	Daily V	Veekly Start	Time 1:00 🗸							
											Save
Rogue AP Kno	wn AP										
+Mark as Known	BDelete Delete A	All .					14	.C. 1	/1	×	н
USSID	in ssid i	t Band St	channei i	t security	41 Detector	Ji† signal	11	Last Detected			
				No data available							

ltem	Description
Last 24 Hours / Last 7 Days / Last 30 Days / Custom	Display the access point(s) detected within 24 hours, 7 days, 30 days or user defined days.
Scan Now	Perform device detection immediately.
Periodic Scan	After enabling this feature, access points will be detected periodically based on the setting configured here.
	<b>Daily</b> – VigorConnect will detect access point on certain time every day.
	• <b>Start Time</b> – Specify a time point as starting time for device detection.
	<b>Weekly</b> – VigorConnect will detect access point on certain time every week.
	• <b>On</b> – Choose the day to perform device detection.
	• <b>Start Time</b> - Specify a time point as starting time for device detection.
+Mark as Known	Vigor access points can be detected and be shown in the table under Rogue AP. However, some of them might be known to you and should not be listed here. To solve this problem, simply click the access point and then click <b>Mark as Known</b> . The selected access point will be transferred and listed under Known AP.
Delete	Remove the selected access point from the list.
Delete All	Remove all of the access points from the list.

Click **Known AP** to display the following page. All the access points listed under this page will be treated as friendly AP.

Scan Now Periodic Sca	an 💽 Daily Weekky	On Sunday v S	itart Time 1:00 v			Sa
gue AP Known AP						
+ Add 🖉 Edit 🗎 Dele	tie 🔝 Delete All			ld < 1	$/1 \rightarrow$	DI
BSSID	channel	security	Comments			
		No data available				

ltem	Description
Scan Now	Perform device detection immediately.
Add	Click to create a new entry for entering information for access point.
Edit	Change the settings for a selected access point. Select one of the access points. The Edit link will be available for clicking, then. After clicking it, channel, security and comments will be allowed to be modified with different values. Scen Now Periodic Scan O Daily Weekly Start Time 1000 • Rogue AP Known AP
	BSSID Channel Security
	00:1d:ae:00:00:02 Any Any
	□ 22:33:11:22:33:33 Any ▼ Any ▼
	00:1diaa:04:f0:81     Any     Disable       VPA/PSK     VPA/PSK       VPA/PSK     Mised(VPA-WPA2yPSK       WPA/02:1x     WPA02:1x       Wixed(WPA-WPA2y802.1x
Delete	Remove the selected access point from the list.

Delete All	Remove all of the access points from the list.
BSSID	Display the MAC address of the detected access point.
Channel	Display the channel used by the access point. Check the box of the selected access point and click <b>Edit</b> .
Security	Display the security mode used by the access point. It can be changed.
Comments	Display a brief explanation for the access point. It can be changed.
Save	Save the settings.

#### 8.2.7 Flow

This page can display the network usage of the top 10 devices based on different conditions (Top 1o Destination From, Top 10 Sources To, In Faults Top 5, Out Faults Top 5, Device Total Flow, Device Flow In, Device Flow Out, Flow Top 10 Ports, Destination Flow Top 10, Source Flow Top 10 and Protocol Flow Top 10).

Root Network Monitoring / Flow			<b>Dray</b> Tek			11:09	13/04/2023 S	ystem Administr	ator
Network Overview									
							② Last 6 hours -	Q Q 5	m - 16
Impect_SourcetP 192.16	8.105.172 - Inspect_D	essP 192.168.105.205 -							
Top 10 Destinations	From 192.168.105.172	Top 10 Sources To	192.168.105.205	In F	aults Top 5		Out P	aults Top 5	
Destination IP	Usage ~	Source IP	Usage ~	Device IP	Port	Faults ~	Device IP	Port	Faults -
192.168.105.205	14.9 MB	192.168.105.172	14.9 MB	192.168.105.181	13	0	192.168.105.181	13	(
192.168.105.120	89.6 kB			192.168.105.181	12	0	192.168.105.181	12	C
192.168.105.170	19.2 kB			192.168.105.181	11	0	192.168.105.181	11	0
				192.168.105.181	10	0	192.168.105.181	10	0
				192.168.105.181	1	0	192.168.105.181	1	
		Device Total Flow					Device Total Flo	w	
6.0 MB				1	totel -		Contraction of the Contraction of the	perc	entage *
5.0 MB				- 192.168.105.181	504.11 MB		- 192	168,105,181	100%
4.0 MB				1		C.			
			1 10111						
3.0 M8			Analdalu						
The second secon	IIIII a L					· · · · · · · · · · · · · · · · · · ·			
2.0 M8	dillight		MAMMAAAAA						
20 M8	UUMMULM.	NY WWWWWWW	MAMMA ANAL W						
2.0 M8	WWWWW 07:00	0000 0000	10:00 11	100					
20 MB		08:00 09:00 ce Flow In	10:00 11	100		Device F	low Out		
20 MB			10:00 11 10:00 11	4.0 MB		Device F	law Out		total ~
2.0 M8 1.6 M8 0.0 0.0 0.0 0.0 0.00		ice Flow In		4.0 MB		Device F		. 192.168.105.181	

# 8.3 Configuration Menu

Configuration menu will vary for root network, user-defined network and specified CPE (AP/switch).

Menu for the root network Menu for the specified switch Menu for the specified AP Root Network 🗸 🗸 G1280_001DAA0D07F0 🗸 🗸 AP 1000C_001DAA04F06C 🛛 🗸 🗸 (7) Configuration (7) Configuration (%) Configuration <u>-</u> Wireless Wizard VLAN Settings ¢₽ ŝů Mesh Mesh ÷ SysLog Settings SysLog Settings AP Profile Z Z z Switch Alert Setup Flow Alert Setup £63 \$ VPN Analytics Setup

This section offers Configuration menu items for the root network.

#### 8.3.1 Wireless Wizard

The wireless wizard offers a quick method to configure WLAN settings for a specified access point.

1. Open Configuration>>Wireless Wizard.

oot Network	~	<b>Dray</b> Tek	VigorConnect	System Time 15:26 10/03/2023	system Administrator
onfiguration / Wirel	ess Wizard				
Disco		Wareless Setup	Summary		<b>D</b>
Step 1- Discover	r				
Select / Desele	ect All				QDiscover
Action	WebLogIn@8P	Devi	ce Name	Device Type	
			ta available		

ltem	Description
Discover	Click to search all the available devices.
Select/Deselect All	Check the box to select or deselect all the devices listed below the table.
Next	Click to access into next page.

2. Click **Discover**. Later available access points will be shown as the following page.

onfiguration	n / Wireless Wizz	rd				
	0					
	Discover		Wireless Setup	Summary	Finish	
Step 1-	Discover					
🗆 Sele	ct / Deselect All					
						QDiscover
Action	WebLogin@IP			Device Name		Device Type
	admin	admin	@192.168.105.110:443	AP902_001DAA3F150	DE	AP902
	admin	i admin	@192.168.105.233:443	AP920RPD_001DAA3	IF3674	AP920RPD

These parameters are explained as follows:

ltem	Description
Action	Check the box to select the entry.
WebLogin@IP	Displays the username and password for the selected entry.
Device Name	Displays the name of the device.
Device Type	Displays the model type of device.
Next	Click to access into next page.

3. Select the one(s) for wireless setup.

	~		<b>Dray</b> Tek		15:29 10/03/2023	System Administrator
onfiguratio	n / Wireless Wizar	d				
	0					
	Discover		Wireless Setup	Summary		Finish
Step 1-	Discover					
L] 566	ect / Deselect All					QDiscover
Action	webLogIn@iP			Device Name		QDiscover Device Type
		admin	@192.168.105.110-443		DAA3F150E	
Action	WebLogIn@IP	admin	@192.168.105.110-443 @192.168.105.233-443	AP902_001		Device Type
Action	WebLogin@iP admin			AP902_001	DAA3F150E	Device Type AP902

ltem	Description
Next	Click to access into next page.

4. Click **Next** to get the following configuration page.

ot Network 🗸 🗸	Dray Tek VigorConnect		5ystem Time 15:30 10/03/2023	root System Administrator	1
nfiguration / Wireless Wizard					
	2				
Step 2- Wireless Setup	Wireless Setup	Summary		inish	
Default Wireless					
Wireless Name	DrayTek				
Wireless Password		0			
VLAN	0				
Administrator Password					
Admin Password	•••••	0			
Confirm Password		٥			
2nd Wireless					
Enable 2nd Wireless	O				
← Previous				No	ext -

ltem	Description		
Default Wireless			
Wireless Name	The system will display the default wireless name (e.g., DrayTek).		
Wireless Password	The system will display the default wireless password (e.g, DrayTek123).		
VLAN	Displays the default value (e.g., 0).		
Administrator Passwo	ord		
Admin Password	Displays the default value (e.g., admin). Change the value if required.		
Confirm Password	Displays the default value (e.g., admin). Change the value if required.		
2nd Wireless			
Enable 2nd Wireless	Click to enable the second wireless network connection.		
2nd Wireless Name	Enter a string as the second wireless name.		
2nd Wireless Password	Enter a string as the second wireless password.		
2nd Wireless VLAN	Enter a value as the VLAN ID for the second wireless network connection.		
2nd Bandwidth Limit	It is available when 2nd Wireless is enabled.		
Enable 2nd Bandwidth Limit	Click to enable this feature. 2nd Upload Limit (bps) - Enter a value as the threshold for the upload limit. 2nd Download Limit (bps) - Enter a value as the threshold for the download limit.		

2nd Station Control	It is available when 2nd Wireless is enabled.
Enable 2nd Station Control	<ul> <li>Click to enable this feature. Then define the period for network connection and reconnection.</li> <li>2nd Connect Time -</li> <li>2nd Reconnect Time -</li> </ul>
Previous	Click to return to the previous page.
Next	Click to access into next page.

5. After configuring the above settings, click **Next** to view the summary.

Root Network	Dray Tek VigorConnect		System Time 15:40 10/03/2023	root System Administrator	R
Configuration / Wireless Wizard					
		0			
Discover	Wineless Setup	Summary		Finish	
Step 3- Summary					
Default Wireless					
Wireless Name	Wireless Password	© VI	AN		
DrayTek	•••••	(	) : 		
Administrator Password					
Admin Password	0				
← Previous				Next	•

These parameters are explained as follows:

ltem	Description
Previous	Click to return to the previous page.
Next	Click to access into next page.

6. If the summary is OK, click **Next**. Wait for the system to process the wireless settings. When the following page appear, click **Finish**.

Root Network	Dray Tek VigorConnect		System Time 15:42 10/03/2023	root. System Administrator	R
Configuration / Wireless Wizard					
Discover Step 4- Finished	Wireless Setup	Summary		4 Finish	
	🗸 Cor	mpleted			
← Previous				i ∕ R	nish

#### 8.3.2 Mesh

The mesh configuration is available for Vigor access point only.

1. Click **+Add Mesh Group**.



These parameters are explained as follows:

ltem	Description	
+Add Mesh Group	Create a new mesh group.	
Delete Mesh Group	Remove the selected mesh group.	

2. The page of Step 1 will be shown as follows:

oot Network	Dray Tek VigorConnect	System Time 14:05 13/03/	2023 System Administrator
onfiguration / Mesh			
X Mesh Group Setup	Show Mesh Group	Search Hesh Nodes	Mesh Status
Step 1- Mesh Group Setup		LI MEDINICO	
Group Setup			
Mesh Root Group Name	AP 903_00507FF19216 (00507FF19216) VigorMeshF19216	<u>×</u>	
LogLevel	Basic ~		
Wifi Setup			
WiFi Name	DrayTekF19216		
WiFi Password		Φ	
Administrator Password			
Cancel			Create →

ltem	Description		
Group Setup			
Mesh Root	Use the drop down menu to select one of the device as the mesh root.		
Group Name	Enter a name as the new mesh group.		
Log Level	Choose <b>Basic</b> or <b>Detailed</b> . If Detailed is selected, more detailed operation information will be recorded on <b>System Log</b> .		
Wifi Setup			
WiFi Name	Displays the wifi name defined for the mesh root.		
WiFi Password	Displays the wifi password defined for the mesh root.		
Administrator Passwo	ord		
Admin Password	Displays the administrator password defined for the mesh root.		
Confirm Password	Enter the password for confirmation.		
Cancel	Click to exit the configuration page without saving the settings.		
Create	Click to open next page.		

3. After finishing settings on Step 1, clicking **Create** to get the following page. View and check the settings in this page.

Root Network	<b>Dray</b> Tek	ligorConnect	System Time 14:07 13/03/2023	root System Administrator
Configuration / Mesh				
Mesh Group Setup	2 Show Mesh Group	Starch Mesh Nodes		Mesh Status
Step 2- Show Mesh Group				
Mesh Group				
Mesh Group Name	Log Level			
VigorMeshF19216	Basic			
Default Wireless				
Wireless Name	Wireless Passwe	ord		
DrayTekF19216		••	Φ	
Administrator Password				
Admin Password				
	¢			
Cancel				Next ->

4. If there is nothing to be changed, click **Next** to access the following page. Then VigorConnect will start to search mesh nodes automatically.

onfiguration / Mesh	<b>Dray</b> Tek v		14:08 13/03/2023	reot System Administrator
nning, please wait a moment				
Mesh Group Setup	Show Mesh Group	3 Search Mesh Nodes		Mesh Skilus
Step 3- Search Mesh Nodes				
Select / Deselect All				QDiscover
Cancel				Add

5. After finishing searching mesh nodes, available APs will be shown on the screen.

ot Network	~	DrayTek	VigorConnect	System Time 14:09 13/03/2023	System Administrator
nfiguration / 1	Mesh				
Me	coup Setup	Show Mesh Group	3 Search Mesh Nodes		Mesh Status
Step 3- Sear	ch Mesh Nodes				
· The me	us group can have up to 8 nodes with 1	Mesh Root included. There are 1/8 node(s) in the	esh group currently.		
• The me	of group can have up to 8 nodes with 1	Mesh Root included. There are 1/8 node(s) in the	esh group currently.		
<ul> <li>The me</li> <li>Select / De</li> </ul>		Mesh Root included. There are $1/\theta$ node(s) in the	with group curriently.		0.0
□ Select / De	select All	Mesh Noot included. There are 1/8 nodely) in the			QDiscover
		Mesh Noot included. There are 1/8 nodely) in the	HMC Address	Model	QDiscover
□ Select / De	select All	Mesh Nort included. There are 1/8 node(s) in the		Model VigorAP 1000C	
Select / De	select All Device Name	Mesh Haot Included. There are 1/8 node(s) in the	MAC Address		

6. Select the access point which will be grouped under the mesh root. Then click **Add**.

ot Network	~	DrayTek	/igorConnect	System Time 14:10 13/03/2023	root System Administrator
onfiguration / N	lesh				
			0		
Met	h Group Setup	Show Mesh Group	Search Mesh Nodes		Mech Status
Step 3- Sear	ch Mesh Nodes				
• The me	h group can have up to 8 nodes with	Mesh Root included. There are 1/II node(s) in the mes	h group currently.		
<ul> <li>The mer</li> <li>Select / De</li> </ul>		Mesh Root Included. There are 1/ll node(s) in the mes	h group currently.		QDisco
		Mesh Root Included. There are 1/ll node(s) in the mes	NAC Address	Model	Q.Biscov
Select/De	oelect All	Mesh Root included. There are 1/ll node(s) in the mes		Model VigorAP 1000C	QDiscov
Select / De	uelect All Device Name	Mesh Roat Included. There are 1/II node(s) in the mes	MAC Address		QDiscov

7. Wait until the following page appears.



8. Click **Finish**. The mesh root and the mesh node grouped under the mesh root will be shown as follows.

Root Network 🗸 🗸			Dray	Tek VigorCor	nnect			System Time 14:29 13/03/2023	root System Administrator	R
Configuration / Mesh										
+ Add Mesh Group 🔋 Delete Mesh Gros	ap.									С
Name	Mesh Group	MAC Address	Model Name	Status	Нор	Uplink	Signal	Clients		
👍 🐼 Root Network(1)										
🐼 Manual_Carrie(0)										
AP 903_00507FF19216	VigorMeshF19216	00:50:7F:F1:92:16	VigorAP 903	Online	0			0		
L 🛞 AP 1000C_001DAA04F06C		00:1D:AA:04:F0:6C	VigorAP 1000C	Online(sync ready)	1	Wireless 5GHz (Ch36)	-40dBm	<b>0</b>		

#### 8.3.3 AP Profile

AP profile is used to apply to a selected access point. It is very convenient for the administrator to configure the setting for access point without opening the web user interface of the access point.

The functions listed in the AP profile in VigorConnect contain settings for all of models of VigorAP. When an AP profile is created, it can be used to apply onto any access point managed by VigorConnect. If the access point does not have the functions defined in the AP profile, after being applied, only the functions that the selected access point supports will be overwritten by the selected AP profile.

Root Network		<b>Dray</b> Tek	VigorConnect		stem Time :04 10/03/2023	root System Administrator	R
Configuration / AP Profile							
+ Add New Profile							
Profile Name	Action						
AP_Carrie	🖉 Edit 🛛 🖻 Delete	C Duplicate C Copy To					
Device Provisioning							
Name		Model Name	Last Provisioned	Status	AP Pro	file	
A 🚠 Root Network						~	
AP 1000C_001DAA04F06C		VigorAP 1000C				~	
AP 902_001DAA3F150E		VigorAP 902	2			~	
AP 903_00507FF19216		VigorAP 903				¥	
						line and the	
						Refresh	Apply

ltem	Description
+Add New Profile	Create a new AP profile with basic settings.
Profile Name	Displays the name of AP profile.
Action	Edit - Configure detailed settings for the selected AP profile. Delete -Delete the selected AP profile. Duplicate - Click to duplicate a new profile (e.g., aaa(1)) based on the selected profile (e.g., aaa). Copy To - Click to open the following page. Then select a network (e.g., Marketing_carrie in this case) from the tree view of Root Network. After clicking the Copy To button, the configuration of selected AP profile will be applied to the selected network (e.g., Marketing_carrie). + Change Network + Change Network
Device Provisioning	Locate the access points for applying suitable AP profile.

	<b>Name</b> – Display a tree view for model managed by VigorConnect.
	Model Name – Display the name of the model.
	<b>Last Provisioned</b> – Display the time that AP profile was applied to the selected device.
	<b>Status</b> – Display the status (updating, complete and "-") of the AP.
	<b>AP Profile</b> – Choose an AP profile for applying to the selected AP. In which, <b>"As Parent"</b> means to apply the profile listed on the top to the selected AP.
Refresh	Click to refresh current page.
Save	Click to save the changes in this page.

#### 8.3.3.1 Add an AP Profile

Click +Add New Profile to create a new AP profile.

Root Network 🗸 🗸	Dray	Tek VigorConnect	System Time 17:02 10/03/2023	root System Administrator	R
Configuration / AP Profile					
Add a Profile					
Profile Name:	AP_Carrie	v.			
AP Login Username:	admin	~			
AP Login Password:	admin Ø	-			
Setting Mode:	Quick Advanced				
Select All:					
↑ Back to profile list				<b>1</b> 00	Save

ltem	Description				
Profile Name	Enter a name of the profile.				
AP Login Username	Enter a username for login the access point.				
AP Login Password	Enter a password for login the access point.				
Setting Mode	Quick - Only basic settings allowed for the AP profile. Advanced - All settings for the AP profile. • Select All - Click to enable/disable the selection. Below shows the AP profile with Quick setting mode. • Output of the select all of the selection. • Default Wreless • Profile Setting • Profile Virtual Setting • Profile Setting • Profile Virtual Setting <p< th=""></p<>				

	Below shows the AP profile with Advanced setting mode.
	Configuration / AP Profile / AP_Carrie
	Central Setup © Operation Mode: Access Point Bange Edender Mech Node Mech Node
	SSID Settings 2,4G General Setup ^
	Rouning 50 Georal Situp
	Load Balance 502 General Setup
	LAN II Sove profile
	Arritme Fairness
	Mobile Device Management
	Application
	Universal Repeater
	WMM Configuration
	System
	Profile Setting
	TROOPSetting
Back to profile list	Return to previous page, AP profile list.
Save	Save the settings and display the new profile on the AP profile list.
	Configuration / AP Profile
	comparator / a riske
	+ Add New Profile
	Profile Name Action
	AP_Carrie 🖉 Edit 🗊 Delete 🖓 Duplicate 🆓 Copy To
	Device Provisioning
	Hanna Handball Hanna Halt Broudel

#### 8.3.2.2 Edit an AP Profile

To configure detailed settings for each AP profile, click the **Edit** button for the selected profile. The setting page appears as follows:

figuration / AP Profile / AP_C	arrie		
eneral Setup SID Settings	Operation Mode:	Access Point Range Extender Mesh Root Mesh Node	
loaming	2.4G General Setup	В	~
oad Balance	2.4G Wireless LAN	•	
AN	2 802.11 Mode	Mixed(11b+11g+11n) ~	
irtime Fairness	2.4G Channel	Channel 11,2462MHz 👳	
obile Device Management	Channel Width	Auto 20/40 MHz $\sim$	
plication	Extension Channel	Channel 7,2442MHz ~	
niversal Repeater	Z Antenna	2T2R 🛩	
MM Configuration	Z TX Power	100% ~	
stem	MAC Clone	0	
rofile Setting	MAC Address		
R069 Setting			

These parameters are explained as follows:

ltem	Description
Area A - Menu Item	At present, the available menu items contain,
	General Setup
	SSID Settings
	• Roaming
	Load Balance
	• LAN
	Airtime Fairness
	Mobile Device Management
	Application
	WMM Configuration
	• System
	Profile Setting
	• TR069 Setting
Area B - Settings	This area will vary according to the item selected in Area A - Menu Item.

(i) Refer to **User's Guide of VigorAP** for the detailed information of settings definition.

# 8.4 Switch Alert Setup

VigorConnect will collect the SNMP trap coming from the VigorSwitch. If an alert event happens on VigorSwitch, the corresponding information will be sent to VigorConnect to send the alert messages.

Configur	ation / Switch Alert Setup				
how 5	∽ entries			Search_	
ndex	Switch Name	1P	Model	Switch Alert	PortAlert
	PQ2121xb_1449BC50673D	192.168.105.202	VigorSwitch PQ2121xb	Enable 🛩	Enable 🛩
E:	P2280_001DAA0C8609	192.168.105.186	VigorSwitch P2280	Enable 👻	Enable 👻
Ŭ,	G2280x_0010AA43C7BA	192.168.105.181	VigorSwitch G2280x	Enable 👻	Enable 🛩
6	Q2121x_1449BC506AA4	192.168.105.212	VigorSwitch Q2121x	Enable 👻	Enable 👻
	G1280_001DAA0D07F0	192.168.105.251	VigorSwitch G1280	Enable 👻	Enable 👻
					+ 1 >
					Apply

These parameters are explained as follows:

ltem	Description
Switch AlertEnable / Disable - Use the drop-down menu to enable or disablefunction of sending an alert message to the recipient.	
Port Alert	<b>Enable / Disable -</b> Use the drop-down menu to enable or disable the function of sending an alert message about port settings to the recipient.
Apply	Apply the settings configured above to each switch.

### **8.5 Flow Alert Setup**

This page is to set different thresholds and flow values for each device. When an abnormality occurs, VigorConnect can quickly detect it and send an alert mail/SMS to the recipient (user/administrator) according to the sFlow analysis.

ihow 5	~ entries			Search	
ndex	Device Name	IP	Model	SMS Alert	Email Alert
l.	PQ2121xb_14498C50673D	192.168.105.202	VigorSwitch PQ2121xb	Disable 👻	Disable 🛩
	G2280x_001DAA43C7BA	192.168.105.181	VigorSwitch G2280x	Disable 👻	Disable 👻
	Q2121x_1449BC506AA4	192.168.105.212	VigorSwitch Q2121x	Disable 👻	Disable 👻
					44 1

ltem	Description
Device Name	Displays the device name of the VigorSwitch.
IP	Displays the IP address of the VigorSwitch.
ModelDisplays the model name of the VigorSwitch.	
SMS Alert	<b>Disable</b> - Select to disable the function of SMS alert. <b>Enable</b> - Select to enable the function of SMS alert.
Email Alert	<b>Disable</b> - Select to disable the function of e-mail alert. <b>Enable</b> - Select to enable the function of e-mail alert.
Apply	Apply the settings configured above to each switch.

To configure detailed settings of flow alerts for individual devices, click the name link under Device Name to open the setting page

how 5	~ entries			Search	
ndex	Device Name	IP	Model	SMS Alert	Email Alert
	PQ2121xb_14498C50673D	192.168.105.202	VigorSwitch PQ2121xb	Disable 🖌	Disable 👻
	G2280x_001DAA43C7BA	192.168.105.181	VigorSwitch G2280x	Disable 👻	Disable 😁
					44 <b>1</b> H
Q2121	xb_1449BC50673D				
User(s)					
	Select /	Deselect All			
Device FI	ow		~		
Port Flow	i.		*		
nspect S	ource Flow		•		
Inspect D	estination Flow		*		
Device Fa	ults		*		
	d				

ltem	Description
User(s)	Select the user name(s) to which VigorConnect sends the alert.
Device Flow	<ul> <li>Enable - Switch the toggle to enable/disable device flow control.</li> <li>Set the threshold for VigorConnect to collect the sFlow data.</li> <li>Frequency - The default is 30 minutes.</li> <li>Volume - The default is 1GB. The unit is GB/MB.</li> </ul>
Port Flow	Port Flow attack your network by sending packets to a range of ports in an attempt to find services that would respond. When Port Flow detection is enabled, the router sends warning messages when it detects port scanning activities that exceed the threshold rate (volume set below).
	<b>Enable</b> - Switch the toggle to enable/disable port flow detection. Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	<b>Port(s)</b> - Select the LAN port number.

	<b>Volume</b> - The default is 1GB. The unit is GB/MB.
Inspect Source Flow	<b>Enable</b> - Switch the toggle to enable/disable the function of inspecting the source flow.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	<b>Volume</b> - The default is 1GB. The unit is GB/MB.
Inspect Destination Flow	<b>Enable</b> - Switch the toggle to enable/disable the function of inspecting the destination flow.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	<b>Volume</b> - The default is 1GB. The unit is GB/MB.
Device Faults	<b>Enable</b> - Switch the toggle to enable/disable the function of detecting the device faults.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	Threshold - The default is 100.
SYN Flood	When the arrival rate of SYN packets exceeds the Threshold value, the router will start to randomly discard SYN packets for a period of time as defined in Frequency. This is to prevent SYN packets from exhausting router resources.
	Enable - Switch the toggle to enable/disable SYN flood defense.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	Threshold - The default is 100.
ICMP Flood	When the arrival rate of ICMP packets exceeds the Threshold value, the router will start to randomly discard ICMP packets for a period of time as defined in Frequency.
	<b>Enable</b> - Switch the toggle to enable/disable ICMP flood defense.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	Threshold - The default is 100.
TCP Flood	When the arrival rate of TCP packets exceeds the Threshold value, the router will start to randomly discard TCP packets for a period of time as defined in Frequency.
	<b>Enable</b> - Switch the toggle to enable/disable TCP flood defense.
	Set the threshold for VigorConnect to collect the sFlow data.
	Frequency - The default is 30 minutes.
	Threshold - The default is 100.
UDP Flood	When the arrival rate of UDP packets exceeds the Threshold value, the router will start to randomly discard UDP packets for a period of time as defined in Frequency.
	<b>Enable</b> - Switch the toggle to enable/disable UDP flood defense.
	Set the threshold for VigorConnect to collect the sFlow data.
	<b>Frequency</b> - The default is 30 minutes.
	Threshold - The default is 100.
Land Flood	LAND attacks happen when an attacker sends spoofed SYN packets with both source and destination addresses set to that of the target system,
	<ul> <li>which causes the target to reply to itself continuously.</li> <li>Enable - Switch the toggle to block/unblock LAND attacks.</li> <li>Set the threshold for VigorConnect to collect the sFlow data.</li> <li>Frequency - The default is 30 minutes.</li> </ul>
----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
	Threshold - The default is 100.
Tiny Fragment	<ul> <li>Enable - Switch the toggle to block/unblock the tiny fragment detection.</li> <li>Set the threshold for VigorConnect to collect the sFlow data.</li> <li>Frequency - The default is 30 minutes.</li> <li>Threshold - The default is 100.</li> </ul>
Push ACK Flood	<ul> <li>Enable - Switch the toggle to enable/disable the push ACK flood defense.</li> <li>Set the threshold for VigorConnect to collect the sFlow data.</li> <li>Frequency - The default is 30 minutes.</li> <li>Threshold - The default is 100.</li> </ul>
RST Flood	<ul> <li>Enable - Switch the toggle to enable/disable the RST flood defense.</li> <li>Set the threshold for VigorConnect to collect the sFlow data.</li> <li>Frequency - The default is 30 minutes.</li> <li>Threshold - The default is 100.</li> </ul>
Apply	Apply the settings configured above to each switch.

## 8.6 VPN Analytics Setup

VPN Analytics provides statistics and notifications for VPN connections by receiving and analyzing the Syslog from the CPE device. It is suggested to keep the VPN syslog only and delete the syslog for other functions to minimize storage usage.

#### 8.6.1 General

This page is used for configuring the general settings for VPN analytics information.

oot Network 🗸 🗸	Dray Tek VigorConnect	System Time 17:24 10/03/2023	root System Administrator
onfiguration / VPN Analytics	Setup		
user Notification List	Service Name Email&SMS Format		
Enable Analytics Setup	Œ		
Keep VPN Syslog Only			
Log Retention Days	90		
() About VPN Analytics:			
VPN Analytics provides statis	stics and notifications for VPN connections by receiving and analyzing syslog from Router. log only and delete syslog for other functions to minimize the storage usage.		
We suggest to keep VPN syst	log only and delete syslog for other functions to minimize the storage usage.		
lotification Default Settir	ngs		
	ngs		
Email Notification			
Email Notification SMS Notification			
Email Notification SMS Notification Notification Incident	C Location Change V		
Email Notification SMS Notification Notification Incident O About Notification Incident Is "pe	C Location Change  Joints r user* based. This is the default setting that will be applied to new users, and each existing.		
Email Notification SMS Notification Notification Incident O About Notification Incid Notification Incident Is "pe user setting can be customiz	Cocation Change V Location Change V dent: r user" based. This is the default setting that will be applied to new users, and each existing red in the "User Notification List" tab.		
Email Notification SMS Notification Notification Incident O About Notification Incident Is "pe user setting can be customia  Location Change: Se connection if the sou	Control Change  Control Chang		
Notification Incident Is "pe user setting can be customiz Location Change: Se connection if the sou IP. A user may change	C C C C C C C C C C C C C C C C C C C		

ltem	Description
Enable Analytics Setup	Click to enable/disable this VPN analytics setup page.
Keep VPN Syslog Only	Click to enable/disable the function of keeping VPN syslog only. If enabled, storage usage will be minimized as possible.
Log Retention Days	Set the days for the system to keep the log.
Notification Default Se	ttings
Email Notification	Click to enable/disable the function of sending a notification to the recipient by email.
SMS Notification	Click to enable/disable the function of sending a notification to the recipient by SMS.
Notification Incident	<b>Location Change -</b> Send notification for the first connection of the day, and only send notification for the following connection if the source location is different from the last connection. Please note, location is a wider scale than IP. A user may change IP but still fall in the same location.
	<b>IP Change -</b> Send notification for the first connection of the day, and only send notification for the following connection if the source IP is different from the last connection.
	<b>Always</b> - Always send notifications when there's a VPN connection.
	<b>Disable -</b> Do not send notifications for VPN connections.
	This is the default setting that will be applied to new users. Each existing user setting can be customized in the User <b>Notification List</b> tab.
Apply	Apply the settings configured above to each switch.

#### 8.6.2 User Notification List

This page allows the system administrator to set the appropriate notification mechanism based on different VPN profiles.

koot Network 🗸 🗸 🗸		DrayTek vis	gorConnect	System Time 17:28 10/03/2023	root System Administrator	0
Configuration / VPN Analytics Setup						
eneral User Notification List Servi	rice Name Email&SMS Format					
Notification						
levice 192.168.105.233 (I	DrayTek_VC1) ~					
how 10 v entries				5	earch	
now in the entries						
	e 🕂 Email Notify 🕆 SMS Notify 🕆	Notification incident	Email	41	Telephone	
rofile ID ↓ ↑ User Name ↓ ↑ Type	e in Email Notifyi? SMS Notifyi?	Notification incident J*	Email	41	Telephone	
rofile ID J↑ User Name J↑ Type			Email	41		
rofile ID-↓† User Name ↓† Type			Email	40		
rofile ID J↑ User Name J↑ Type			Email	46		

These parameters are explained as follows:

ltem	Description
Notification	Click to enable/disable this notification setup page.
Device	Select a device. The VPN profiles configured for that device will be shown below.
User Name	Displays the name of the VPN profile.
Туре	Displays the VPN type (e.g., LAN to LAN, Remote Dial-In).
Email Notify	Switch the toggle to enable/disable the function of email notify.
SMS Notify	Switch the toggle to enable/disable the function of SMS notify.
Notification Incident	Choose one of the notification incidents as the triggered event. When an incident occurs, a notification SMS/email will be sent out based on the address and telephone entered in this page.
Email	Enter the email address defined for the VPN profile.
Telephone	Enter the phone number defined for the VPN profile.
Save	Save the settings.

#### 8.6.3 Service Name

The service name profile created here will be selected or applied on the page of **Monitoring>>VPN>>Firewall**. The default service names are HTTPS, HTTP, NoMachine, email, and DrayTek.Chat. Create available service names to meet the actual requirement.

Configuration	VPN Analytics Setu	p				
General User	Notification List	rvice Name Ema	il&SMS Format			
+ Add						
				Search		
ost	.∤† Туре	<b>↓</b> † Port	↓† Service Name	4† Acti	lan	
ny	TCP	443	HTTPS	0	Edit 🔯 Delete	e
ny	TCP	80	HTTP	0	Edit 📋 Delete	e
ny	TCP	4000	NoMachine	0	'Edit 📋 Delete	e
72.16.2.8	TCP	995	email	0	Edit 💼 Delete	e
72.16.2.8	TCP	3000	DrayTek.Chat	0	Edit 🔯 Deleta	ė
					44	_

These parameters are explained as follows:

Item	Description
+Add	Click to create a new service.
Host	Displays the IP address of the service.
Туре	Displays the protocol set for the service.
Port	Displays the port number.
Service Name	Displays the name of the service.
Action	<b>Edit</b> - Click to modify the selected entry.
	<b>Delete</b> - Remove the selected entry.

Click **+Add** to create a new service profile.

General     User Notification List     Service Name     Email&SMS Format       Host     IPv4 format (EX: 123.12.1.1) or Any       Type     TCP     UDP       Port     Image: Comparison of the service Name       Service Name     Image: Comparison of the service Name	Host IPv4 format (FX: 123.12.1.1) or Any Type TCP UDP ICMP Port		Setup	
Type TCP UDP ICMP Port	Type TCP UDP ICMP Port Service Name	eneral User Notification List	Service Name Email&SMS Format	
Port	Port Service Name	Host	IPv4 Iormat (EX: 123.12.1.1) or Any	
	Service Name	Туре	TCP UDP ICMP	
Service Name		Port		

ltem	Description
Host	Enter the IP address or the word of Any as the hostname.
Туре	Set the protocol used for the host.
Port	Enter a port value used for the host.
Service Name	Define a name for the service.
Cancel	Discard current modification and return to the previous page.
Save	Save the current settings.

#### 8.6.4 Email&SMS Format

This page allows you to set the format of email and SMS. You have to enter the message for email and SMS by following the format suggested on this page.

	~ )	Dray Tek VigorConnect	System Time 10:57 13/03/2023	root System Administrator	
onfiguration / V	PN Analytics Setup				
eneral User Not	ification List Service Name Email&SMS F	ormat			
Format	Preview				
Date Time Format	2006-01-02 15:04:05				
/PN Access					
<ul> <li>SLAST_D</li> <li>SPROFILI</li> <li>SUSERN/</li> <li>SROUTER</li> <li>SIP: Virtu</li> </ul>	IME: Event time ATE: Last access time 5 IO: Profile ID Mit: Username L.MAIE: Router name al IP ID: Public IP				
<ul> <li>\$TYPE: Q</li> <li>\$VPN_TY</li> </ul>	PE-VPN type PE-VPN type DN: Location				
<ul> <li>\$TYPE: Q</li> <li>\$VPN_TY</li> </ul>	onnection type PE: VPN type	VPN UPI			
<ul> <li>\$TYPE: C</li> <li>\$VPN_TY</li> <li>\$LOCATION</li> </ul>	onnection type HE-VPM type NY: Location	TYPE] IS UP			

ltem	Description
Format/Preview	<b>Format -</b> Click this tab for entering the content of SMS/email. <b>Preview -</b> Click this tab for viewing the content of SMS/email.
Date Time-Format	Displays the date time-format based on Golang (e.g., 2006-01-02 15:04:05).
VPN Access / Service A	Access
Email Subject	Enter the subject of the email.
Email Message	Enter the message/content that the recipient will see by email.
SMS Message	Enter the message/content that the recipient will see by an SMS.
Save	Save the current settings.

This page is left blank.

# Part V Device Menu for a CPE



## **Chapter 9 Device Menu**

On the dashboard for a specified CPE (AP/switch), the Device menu contains:



## 9.1 Dashboard for CPE

Use the drop-down menu on the top of the left side to select a CPE (e.g., AP 1000C).

Networks and Devic	es	Q X
	Model	
< Home / Root Netw	ork(7)	
器 Root Network(7)		器 Manual_Carrie(0)
윤 NetFlow(0)		
		AP 903_00507FF19216
		▲ G1280_001DAA0D07F0
		▲ G2280x_001DAA43C7BA
		P2280_001DAA0CB609
		A PQ2121xb_1449BC50673D
		A 03131- 1440DCE06884

The dashboard will vary based on the selected CPE (access point/switch).

It will display device information, wireless LAN (2.4GHz/5GHz), wireless LAN(5GHz)-2, Wireless Station List 2.4G/5G/5G-2, LAN overview, network, note, quick tools, operation mode, connectivity and alerts for an access point.

AP 1000C_0010	илангаас ~	<b>Dray</b> Tek	VigorConnect	System Time 11:33 09/03/2023	root System Administrator	R
Dashboard			Device Status: offline Alarms:	0 Active Clients: 0	Auto Refresh: 1 Minute ~	
F	90-2 0 10-1 0 10-1 0 2-4 0 10-2 0 2-4 0 2-4 0 10-2 0 2-4	1	Wireless Station List 2.4G	No data available		
USB	P2 P1POL RESET #		Wireless Station List 5G	No data available		
Device Info	Mation	Wireless LAN (2.4GHz)	Wireless Station List 5G-2			
IP Address		Status		No data available		
Network Nam	http://192.168.105.185:80	Mode				
Model	VigorAP 1000C	Channel	LAN Overview			
Firmware Vers	1.5	мас	LAN 👌 Status	J† IP/Mask	47 DHCP	-41
MAC Address	001DAA04F06C	Wireless LAN (5GHz)		No data available		
Up Time		Status				
Hardware Ver	ilon 1.0.3	Mode			- show m	nore
Serial Number		Channel				
Note 1		MAC	Network			
Note 2		MAC	Name 47 Index 47 VLAN ID	UT DHCP U	IT IP UT IPV6 UT Proxy	ĝ ;
	me 2023-02-23 13:47:50 ()			No data available.		

For a switch, it will display device information, system information, connectivity and alerts, last 10 SNMP events, port status, note and quick tools.

=	PQ7121xb_14498C50673D V		<b>Dray</b> Tek	VigorConnect	Syste 11:3	em Time 7 09/03/2023	n System Administra	tor R
(9)	Dashboard				Device Status: offline	Alarms: 0	Auto Refresh: 1 Minute	v c
5	O PoE   A PoE Error A Group	OIP Error Ocked Oisabled						
-0-								
-	Monitor 2 4 6	8						
2	» <b>–</b>							
	PWR Reset 1 3 5	7 Console 9 10 11 12						
		10/100M/1G 📕 2.5G 📕 10G						
<@>	Device Information			Port Status				
28	Device Name	PQ2121xb_1449BC50673D		Port 🕂 Description	17 Enable Status	11 Link State	is 41 Speed 41 I	Suplex 41
0	IP Address	https://192.168.105.202:443			No data	available		
	Network Name	Root Network						
	Model	VigorSwitch PQ2121xb						show more
	Firmware Version	2.8.0_RC2						
	MAC Address	1449BC50673D		Note				+ Add
	Up Time			Note				+ ADD
	Hardware Version	3.5.1		Empty				
			- show more					
				Quick Tools				
	System Information 🛟		Last 24 hours-	A Download Last	Config			
	CPU	0% Memory	0.96	_				-
	Cache	0.96						

## 9.2 Monitoring Menu

Monitoring menu offers options for monitoring the normal and abnormal actions for network, and CPE. This section offers Monitoring menu items for a selected CPE.

enu f	or the root network	Menu	for the specified switch	Menu	for the specified AP
=	Root Network 🗸	=	PQ2121xb_1449BC50673D ~	=	AP 1000C_001DAA04F06C
(7)	Monitoring	(7)	Monitoring	(7)	Monitoring
	Alarm		Alarm	<u>F</u>	Alarm
	VPN	48	Logs		Logs
Z	Logs	2	Flow		
	Devices				
	Floor Plan				
502 202	Rogue AP Detection				
ዲዩ	Flow				

#### 9.2.1 Alarm for a Switch

Alarm message will be recorded on VigorConnect server when there is a trouble happened to the device (CPE).

	_				Dray				
Mo	nitori	ng / A	larm						
500	rch No.	/ Device	e Name / MAC		Time Interval : 2023/02	/13 to 2023/03/15			
A	larm 🖪	1	History						
é	💁 Expo	ort All	意 Delete	1 Delete All				10 <	( 1 /1 > H C
	N	40.	Ack Status	Time	Device Name	MAC Address	Alarm Level	Alarm Message	Alarm Type
D	1	16	Not Ack	2023-03-03 13:59:12	Q2121x_1449BC506AA4	1449BC506AA4	A Critical	Device Loss Connection	Device Loss Connection

ltem	Description
Alarm / History	Alarm – Display the alarm records recently.
	<b>History –</b> Display all the alarm records that have been solved and cleared.
Export All	Click to save alarm log as a XLS file.

Delete	Clear the alarm record which has been solved by VigorConnect.
Delete All	Clear all of the alarm records which have been solved by VigorConnect.
No.	Displays the index number of the alarm. It is offered by VigorConnect automatically.
Ack Status	Displays the status of the records with the type specified here (Not Ack or Acked).
Time	Displays the time of the device to be monitored.
Device Name	Displays the name of the monitored device.
MAC Address	Displays the MAC address of the monitored device.
Alarm Level	Displays the alarm message with the severity (e.g., Critical) specified.
Alarm Message	Displays a brief explanation for the alarm sent by VigorConnect automatically.
Alarm Type	Displays the alarm message with the type specified.

#### 9.2.2 Logs for a Switch

It provides records of action executed, name of the selected device, MAC address, Device IP, and Current Time for CPE device managed and monitored by VigorACS.

253         Q2121x_14498C506AA4         6         14498C506AA4         192.168.105.212         Set Parameter Values         33         2023.03.03.13.5           252         Q2121x_14498C506AA4         6         14498C506AA4         192.168.105.212         Set Parameter Values         32         2023.03.03.13.5	A Export	All 🖹 Delete All					и с	1 /1 > N
253         Q2121x_1449BC506AA4         6         1449BC506AA4         192.168.105.212         Set Parameter Values         33         2023.03.03.13.5           252         Q2121x_1449BC506AA4         6         1449BC506AA4         192.168.105.212         Set Parameter Values         32         2023.03.03.13.5	ID	Device Name	Device ID	MAC Address	Device IP	Action	Action ID	Time
252 Q2121x_14498C506AM 6 14498C506AM 192.168.105.212 Set Parameter Values 32 2023.03.03.13.5	25	4 Q2121x_14498C506AA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	34	2023-03-03 13:51:12
	25	3 Q2121x_1449BC506AM4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	33	2023-03-03 13:51:07
251         Q2121x_14498C506AA4         6         14498C506AA4         192.168.105.212         Set Parameter Values         31         2023.03.03 13:5	□ 25	2 Q2121x_1449BC506AA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	32	2023-03-03 13:51:07
	25	1 Q2121x_1449BC506AA4	6	1449BC506AA4	192.168.105.212	Set Parameter Values	31	2023-03-03 13:51:07
	0 1	21111_1110COVINI	*	1110000000	192.100.109.222	Sec Parameter Values	51	2025-05-05 13:51:07

ltem	Description
Log Туре	Click one of the tabs (e.g., All CPE Actions, Device Reboot, Reboot By CPE, Reset System Password, Set Parameter, File Transfer, Setting Profile, Device SysLog, CPE Notify, Device Register, Device Operate, Switch SNMP Alert and etc.) to display related log on this page.
search ID / Device Name / Dr Q	Enter the condition for VigorConnect to search and display relational information.
Export All	Click to save the log as an XLS file.

Delete	Clear the alarm record which has been solved by VigorConnect.
Delete All	Clear all of the alarm records which have been solved by VigorConnect.
ID	Displays the index number of the log. It is offered by VigorConnect automatically.
Device Name	Displays the name of the monitored device.
Device ID	Displays the identification number of monitored device.
MAC Address	Displays the MAC address of the monitored device.
Device IP	Displays the IP address of the monitored device.
Action	Displays the action performed by the monitored device.
Action ID	Displays the serial number for the action.
Time	Displays the time of the device to be monitored.

### 9.2.3 Flow for a Switch

This page displays the network traffic flow of certain switches which support the sFlow feature and enable the sFlow feature.

191	• This d	levice needs t	o be configured	Flow first. If you	a have configure	d release refresh	And the second second					
						o, prose renear	this page later.					
onitorin	g / Flow											
Device Ov		IP	Device Port Statu:	Dentes	Attack Monitor							
Device Ov	verview	17 I	Device Fort Statu:	Device	Attack Monitor			Intel Provide				
								· 0	2023-03-16 07:52:5	52 to 2023-03	-16 17:34:46 ∨ → Q ζ	2 4 1
						Packet	s Per Min ~					
40 K						6,000,000						total ~
35 K										1	- Packet Lenth: 1-64	
35 K											_ Packet Lenth: 129-	256 4.0
30 K										-	Packet Lenth: \$13~	1500 2.4
25 K											- Packet Lenth 65-9	6 2.4
											- Packet Lenth: 257~	512 1.6
20 K											- Packet Lenth: 97~1	28 400
15 K											2023-03-16 17:08:00	
10 K											- Packet Lenth: 1-64: 0	
											- Packet Lenth: 65-96: 0 - Packet Lenth: 97-128: 0	
5.K										Vier	- Packet Lenth: 129-256: 0	
0	0	200	10.00	11.00	12:00	13:00	14:00	15:00	16.00	17.00	- Packet Lenth 257~512 0 - Packet Lenth 513~1500 0	
98.09			10.00	11.00	12.00	12.99	14.00	(2.50	TRAN	17/104		
						Port Flo	ow Usage					
											pe	* spatners
											- Port - 1	39%
							0				- Port-2 - Port-24	22%
						N					- Port-24	95
											- Port - 20	- 9%

vice Overview IP De	evice Port Status Device Attack Monitor			🕑 Last 6 hours - 🔍 🖏	5m ~
ect, SourcelP 192,168,105,251 + 1	Inspect_DestlP 192.168.105.230 +				
Top 10 0	Destinations From 192.168.105.251		Тор	10 Sources To 192.168.105.230	
stination IP	Usage -	Sourc	e IP	Usage ~	
2.168.105.230	2.0 MB	192.1	68.105.251	2.0 MB	
2.168.105.11	16.0 k8				
	Source IP Usage Top 20			Source IP Visit Rate Top 20	
	-	nertege - 1		percen	nlage -
	- 192 168 105 251	31%		fe80:21d:aafffe43:c7ba	36%
	- 192 168 105 251 - 192 168 105 36	31%		- fe80.21d aaff 5443.c7ba - 192 168.105.36	36%
	- 192 168 105 251 - 192 168 105 35 - fe80-21d aaff fe33 c7ba	31% 8% 8%		- fe80:21dtaefffe43:c7ba - 192:168:105:36 - 192:168:106:221	36% 11% 8%
	- 192 168 105 251 - 192 168 105 36	31%		- fe80.21d aaff 5443.c7ba - 192 168.105.36	36%
	- 192.168.105.251 - 192.168.105.35 - fe80.210 a#11/643.c7ba - 172.16.2.8	31% 8% 8% 7%		- fe80::21d aaff 543):c7ba - 192 168:105:36 - 192 168:106:221 - ::bdl::win7_64(seet)	36% 11% 8%
	- 192.168.105.251 - 192.168.105.36 - fel0.210.aaff.fe43.c7ba - 172.16.2.8 - 192.164.05.30	31% 8% 8% 7%			36% 11% 8% 8% 6%
	- 192168.165.251 - 192168.165.36 - 1602.31d.auff.45d.72e - 1725.58.28 - 192.168.165.230 - 1925.468.165.231	31% 8% 8% 6%		- fe80-21/d aaff543.c7ba - 112 168.105.36 - 112 168.105.21 - (edit,wird)74(24tet) - 192 168.105.233 - 1192 168.105.233	36% 11% 8% 8% 6% 4%
	- 192.168.165.251 - 192.168.165.35 - 192.168.165.35 - 192.168.165.20 - 192.168.106.221 - 192.168.106.223 - 192.168.106.233	315 85 85 86 66 66 55 55 55		- fe80-216.adff.443.c7ba - 192.168.105.30 - 192.148.105.221 - (-041.uki/0_54.24x4) - 192.148.106.223 - 192.148.106.222	365 115 15 15 15 15 15 15 15 15 15 15 15 1
	- 192 168 165 251 - 192 168 165 36 - 160 21d adf fet3 UTbe - 172 162 38 - 193 168 105 230 - 193 168 105 233 - 192 168 105 233 - 192 168 105 178	315 85 85 85 85 55 55		- fe00_21d aaff 543 c70a 1122 168 106 231 - (stat 168 106 231 - (stat 168 106 233 - 192 168 106 233 - 192 168 106 233 - 192 168 106 232 - 192 168 106 222 - 192 168 106 223	369 115 85 85 65 45 45 35



							⊘ Last 6 hours - Q \ C 5n	n ~ 19
		SYN Flood Monito	or .				SYN Flood Monitor Message	
						Time ~	Message	
						2023-03-16 17:06:01 2023-03-16 17:05:09	The top flager syn, it sends to the destination-(192,168,105,36:11324> from the source-(192,168,108,221,33571> on port 1 The top flager syn, it sends to the destination-(192,168,105,36:15352> from the source-(192,168,106,222,455)5> on port 1	Î
12:00	13:00	14:00	15:00	16:00	17:00	2023-03-16 17:04:44	The tcp.flags=syn, it sends to the destination<192.168.111.125:80> from the source<192.168.105.33:55940> on port 20	
- 5YN	12.00		1444	1949	. *	2023-03-16 17:03:44	The tcp.flags=syn, It sends to the destination<192.168.105.36:14109> from the source<192.168.106.221:56197> on port 1	
		ICMP Flood Monit	or v				ICMP Flood Monitor Message	
			17. S.			Time v	Message	
						2023-03-16 17:06:01	The ip.protocol=icmp, it sends to the destination<172.16.2.8> from the source<192.168.105.233> on port 2	Ĩ
						2023-03-16 17:04:56	The ip.protocol=icmp, it sends to the destination<172.16.2.8> from the source<192.168.105.233> on port 2	
				2023-03-16 15:20:00 - ICMP Packets: 0		2023-03-16 17:03:24	The ip.protocol+icmp, it sends to the destination+172.16.2.8> from the source<192.168.105.233> on port 2	
						2023-03-16 17:02:58	The ip protocol=icmp, it sends to the destination<192.168.233.1> from the source<192.168.233.12> on port 1	
12:00	13:00	14:00	15:00	16.00	17:00	11.06.00	With the second of the second state	
		TCP Flood Monito	ж				TCP Flood Monitor Message	

#### 9.2.4 Alarm for an AP

Alarm message will be recorded on VigorConnect server when there is a trouble happened to the device (AP).

AP 1000C_001D	W04E06C	~		Dro	<b>YTek</b> VigorConnect		System Time 15:36 15/03/2023	root System Administrator	
Monitoring /	Alarm								
search No. / Devi	ce Name / MAI			Time Interval : 2023	8/02/13 to 2023/03/15				
Alarm	History								
🔥 Export All	📋 Delete	🗇 Delete All					H2 <	1 /1 → 8 C	
	No.	Ack Status	Time	Device Name	MAC Address	Alarm Level	Alarm Message	Alarm Type	
					No data available				

ltem	Description		
Alarm / History Alarm – Display the alarm records recently.			
	<b>History –</b> Display all the alarm records that have been solved and cleared.		
Export All	Click to save alarm log as a XLS file.		
Delete	Clear the alarm record which has been solved by VigorConnect.		
Delete All	Clear all of the alarm records which have been solved by VigorConnect.		

No.	Displays the index number of the alarm. It is offered by VigorConnect automatically.		
Ack Status	Displays the status of the records with the type specified here (Not Ack or Acked).		
TimeDisplays the time of the device to be monitored.			
<b>Device Name</b> Displays the name of the monitored device.			
MAC Address	Displays the MAC address of the monitored device.		
Alarm Level	Displays the alarm message with the severity (e.g., Critical) specified.		
Alarm Message	Displays a brief explanation for the alarm sent by VigorConnect automatically.		
Alarm Type	Displays the alarm message with the type specified.		

#### 9.2.5 Logs for an AP

It provides records of action executed, name of the selected device, MAC address, Device IP, and Current Time for CPE device managed and monitored by VigorACS.

	rype: A	NI CPE Actions				2022/02/	13 to 2023/03/15 🗢	search ID / Device Name / Device
۵	Export All	🖹 Delete 🔒 Delete All					ы <	1 /3 > 14 C
	ID	Device Name	Device ID	MAC Address	Device IP	Action	Action ID	Time
	598	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Inform		2023-03-13 15:41:21
0	582	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	65	2023-03-13 13:52:58
	580	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	63	2023-03-13 13:51:02
	579	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	62	2023-03-13 13:50:50
	578	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	61	2023-03-13 13:50:39
	577	AP 1000C_001DAA04F06C	4	001DAAD4F06C	192,168.105.185	Inform		2023-03-13 13:50:22
	575	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	60	2023-03-13 13:49:14
D	573	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	59	2023-03-13 13:47:04
	572	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	58	2023-03-13 13:46:32
0	571	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	57	2023-03-13 13:46:09
	570	AP 1000C_001DAA04F06C	4	001DAA04F06C	192.168.105.185	Set Parameter Values	56	2023-03-13 13:45:44

These parameters are explained as follows:

ltem	Description				
Log Туре	Click one of the tabs (e.g., All CPE Actions, Device Reboot, Reboot By CPE, Reset System Password, Set Parameter, File Transfer, Setting Profile, Device SysLog, CPE Notify, Device Register, Device Operate, Switch SNMP Alert and etc.) to display related log on this page.				
Search ID / Device Name / Dr Q         Enter the condition for VigorConnect to search and display relinformation.					
Export All	Click to save the log as an XLS file.				
Delete	Clear the alarm record which has been solved by VigorConnect.				
Delete All	Clear all of the alarm records which have been solved by VigorConnect.				
ID	Displays the index number of the log. It is offered by VigorConnect automatically.				
Device Name	Displays the name of the monitored device.				
Device ID	Displays the identification number of monitored device.				
MAC Address	Displays the MAC address of the monitored device.				
Device IP	Displays the IP address of the monitored device.				
Action	Displays the action performed by the monitored device.				
Action ID	Displays the serial number for the action.				
Time	Displays the time of the device to be monitored.				

## 9.3 Configuration

 $(\mathbf{i})$ This section introduces the menu item used for the selected CPE (AP or switch) briefly. For more detailed information on each menu item, refer to User's Guide of the selected CPE device.

Configuration menu will vary for root network, user-defined network and specified CPE (AP/switch).

This section offers Configuration menu items for the specified CPE (AP/switch).

Menu	for the root network	Menu	l for the specified switch	Menu for the specified AP		
=	Root Network 🗸 🗸	=	PQ2121xb_1449BC50673D V	=	AP 1000C_001DAA04F06C V	
( ⁷ )	Configuration	(7)	Configuration	Ø	Configuration	
\$°	Wireless Wizard Mesh	<u>-~</u>	VLAN Settings	<u>-</u>	Mesh	
<i>√</i> ⊕	Mesh AP Profile Switch Alert Setup Flow Alert Setup VPN Analytics Setup	th	sFlow Settings PoE SysLog Settings	*** ***	SysLog Settings	
	VPN Analytics Setup	<u></u>		<u></u>		

#### 9.3.1 VLAN Settings for a Switch

The VLAN configuration is available for Vigor switch only.

#### 9.3.1.1 Create VLAN

PQ2121xb_1449BC50673D	Dr Dr	<b>ay</b> Tek VigorConnect	System Time 11:46 16/03/2023	root System Administrator	R
Create VLAN	PQ2121xb_1449BC50673D / Configuration	on / VLAN Settings			С
Interface Settings	+ Add 💼 Delete				
Graphic View	VLAN Id 🗸 VLAN Name	J↑	VLAN Type		↓↑
		No data available			

Item Description	
+Add	Click to create a VPN profile.
Delete	Click to remove the selected VPN file.
VLAN IdDisplays the VLAN ID number used by the VPN file.	
VLAN Name	Displays the name of the VPN file.

		_	
VI	AN	Тур	ρ
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-

#### Displays the VLAN type of the VPN file.

#### To create a VLAN profile,

1. Click **+Add** to get the following page.

PQ2121xb_1449BC50673D / Co	onfiguration / VLAN Settings		C
VLAN ID	10	]	
VLAN Name	VLAN_for_MKT	] ~	
			× Cancel + Add

These parameters are explained as follows:

ltem	Description		
VLAN Id         Enter a number.			
VLAN NameEnter a name of the VPN file.			
<b>Cancel</b> Discard current modification and return to the previous page.			
+Add	Save the current settings and return to the previous page.		

2. After entering the ID number and name of the profile, click the **+Add** button. A new VLAN profile will be added to the page.

~			Dray Tek VigorConnect	System Time root 13:09 16/03/2023 System Administrator				
PQ21	21xb_1449	BC506	673D / Configuration / VLAN Settings				C	
+ Add 的 Delata								
	VLAN 9d	40	VLAN Name		1 VLAN Type		41	
0	1		default		Default			
	10		VLAN_for_MKT		Static			
		-					_	
	PQ21 + Ad	PQ2121xb_14494 + Add @ Deintu VLANIM	PQ2121xb_1449BC500 + Add @ Deinte VLANId & 1	VLAN Id         45         VLAN Name           1         default	VLAN Id         41         VLAN Name         3           1         default         default         default	VIAN Id         VIAN Name         11 default         Default           1         default         Default         Default           10         VIAN, for, MKT         Static	VLAN Id         VLAN Name         37         VLAN Type           1         default         Default         Default           10         VLAN. for. MKT         Static	

#### 9.3.1.2 Interface Settings

This page allows a user to configure interface (GE) settings related to VLAN.

PQ2121xb_14498C506730 V		Dra	<b>y</b> Tek VigorCol	nnect	System Time 14:12 16/03/2023	root System Administrator	R
Create VLAN PQ	2121xb_1449BC50673D / Cor	figuration / VLAN	Settings				¢
Interface Settings S	elect Ports to Apply				~		
Graphic View	Setup Mode	Basic	Advanced				
	Port	Select / D	eselect All				
	Interface VLAN Mode	Hybrid		~			
	PVID						
	Tagged VLAN	Nothing se	lected	~			
	Untagged VLAN	Nothing se	lected	u l			
					Apply		
							٥
Port			17 Tagged VLAN	JT Untagged VLAN	41 Forbidden VLAN	47 Accepted Type	47
2.50		1		1	944- 144-	ALL.	
2.50		1		1		ALL	
2.50		1		1		ALL	
2.50	GE5 Trunk	1	-	1	-	ALL	

ltem	Description
Setup Mode	Click to choose basic or advanced settings.
Port	Select the interface (GE, LAG) to apply the settings configured on this page.
Interface VLAN Mode	Select the VLAN mode of the interface.
	<b>Hybrid</b> – Support all functions as defined in IEEE 802.1Qspecification.
	Access – Accepts only untagged frames and join an untagged VLAN.
	<b>Trunk</b> - An untagged member of one VLAN at most, and is a tagged member of zero or more VLANs.
	<b>Tunnel</b> - Support all functions as defined in IEEE 802.1Q tunneling specification.
PVID	A PVID (Port VLAN ID) is a tag that adds to incoming untagged frames received on a port so that the frames are forwarded to the VLAN group that the tag defines.
	For port under <b>Access</b> Mode, VLAN ID provided as PVID would automatically be selected as the untagged VLAN.
Accepted Type	It is available in the Advanced mode.
	Specify the acceptable-frame-type of the specified interfaces. It's only available with Hybrid mode.
	All - Accept frames regardless it's tagged with 802.1q or not.
	Tag Only - Accept frames only with 802.1q tagged.
	Untag Only - Accept frames untagged.
Enable Ingress	It is available in the Advanced mode.
Filtering	Enable the ingress filtering to filter out any packets not belong to any VLAN members of this port. It is enabled automatically while operating in Access and Trunk mode.
Tagged VLAN	Specify the VLAN profile tagged in the VLAN.

Untagged VLAN	Specify the VLAN profile untagged in the VLAN.
Forbidden VLAN	It is available in the Advanced mode. The selected GE port only allows default VLAN packet to pass through.
Enable Uplink	Switch the toggle to enable/disable the function. It is available when Trunk is selected as Interface VLAN mode. Click the toggle to enable the function and specify the TPID type. <b>TPID -</b> Use the drop-down list to set the TPID type.
Apply	Save the current settings.

#### 9.3.1.3 Graphic View

This page can display the PVID and VLAN ID number of each port in real time.



ltem	Description
Existing VLAN	Displays the existing VLAN profiles. Use the drop-down list to select an existing profile.
Create VLAN	A quick method to create a VLAN profile. Enter the VLAN ID number (1 to 4094), and select the port number (GE1 to GE12, or All) as the VLAN member. Then click <b>Add</b> .

	Create VLAN Filter
	0 1~4094
	Port Select All
	GE 1 GE 2 GE 3 G
	GE 4 🗌 GE 5 🗌 GE 6 🗌
	GE 7 🗌 GE 8 🗌 GE 9 🗌
	GE 10 GE 11 GE 12 GE 12 GE 12 GE 12 GE 10 GE 12 GE 10 GE 12
	Cancel Add
Filter	<ul> <li>VLAN - Select to enable PVID and Tagged VLAN at the same time.</li> <li>PVID - A PVID (Port VLAN ID) is a tag that adds to incoming untagged frames received on a port so that the frames are forwarded to the VLAN group that the tag defines.</li> <li>For port under Access Mode, VLAN ID provided as PVID would automatically be selected as the untagged VLAN.</li> <li>Tagged VLAN - Specify the VLAN profile tagged in the VLAN.</li> </ul>
	Existing VLAN PVID Tagged VLAN
	1 0 0
	10 🗆
	20 🗆 🗆
	Clear
	20
VLAN Mode for All Ports	<b>Trunk</b> - An untagged member of one VLAN at most, and is a tagged member of zero or more VLANs.
	Access - Accepts only untagged frames and join an untagged VLAN.
Apply	Save the current settings.

#### 9.3.2 sFlow Settings for a Switch

The sFlow configuration is available for Vigor switch only.

sFlow (Sampled Flow) is a method which uses sampling to get the network packets information for the system administrator understanding the network operation and the network congestion.

ration / sFlow Settings				
2.022				
ile List				
ID				
Profile	Enable Disable			
Sampling Rate	400			
r Sampling Interval	30			
ource Ports	All unassigned switch ports			
			Ap	pły -
	ID Profile Sampling Rate r Sampling Interval uurce Ports	Profile Disable Disable Sampling Rate 400 30	Profile Disable Disable Sampling Rate 400	Profile     Enable       Sampling Rate     400       r Sampling Interval     30       nurce Ports     All unassigned switch ports

These parameters are explained as follows:

ltem	Description
Profile List / sFlow Config	Click Profile List to display the table of sFlow profiles. The link will be changed into sFlow Config for you to click again to return to the configuration page.
Profile ID	The number 1 to 8 represents the profile 1 to 8.
Enable Profile	Click Enable / Disable to enable or disable this function.
Packet Sampling Rate	Displays the sampling rate of the packets for the server to capture.
Counter Sampling Interval	Displays the time (sec.) for the sFlow server to obtain the traffic on the interface (LAN port) periodically.
Data Source Ports	Displays the LAN interface (10GE1 to 10GE4) of the data source port.
Apply	Save the current settings.

Click **Profile List** to list the following table.

Profile ID	Enable Profile	Packet Sampling Rate	Counter Sampling Interval	Collector Address Type Collector Address	Collector Port Data	
1	Disable	400	30	Hostname	6343	
2	Disable	400	30	Hostname	6343	
3	Disable	400	30	Hostname	6343	
4	Disable	400	30	Hostname	6343	
5	Disable	400	30	Hostname	6343	
6	Disable	400	30	Hostname	6343	
7	Disable	400	30	Hostname	6343	
8	Disable	400	30	Hostname	6343	

#### 9.3.3 PoE

The PoE configuration is available for Vigor switch (with PoE feature) only.

#### 9.3.3.1 Properties

This page allows a user to configure general settings for supplying PoE power for all PoE ports.

P02121ab_1449BC50673D	*			DrayT	ek VigorConnect		System Time 14:53 16/03/2023	system Administrator
Properties	PQ21	121xb_1449BC50	673D / Configu	ration / PoE				C
Schedule	PoE	Mode		Auto Manual	Disable			
	Pow	ver Budget(W)		140				
	Con	suming Power(W)		7.8				
	Adv	ertised Power(W)		0				
	Ren	naining Power(W)		132.2				
	SW	Version		1				
	Port	t						
				Select / Deselect	All			
	Ena	ble		•				
	Prio	rity		Low High	Critical			
							Apply	
		<b>Europhia</b>	and the second se			Provide state		10000
	Port GE1	Enable	Status No PD	PD Class	Priority	Power Used (W)	Power Limit (W) AT (30)	Port Cycle Apply
	GE2	Enabled	No PD		Low	0	AT (30)	Apply
	GE3	Enabled	ON	4	Low	3.9	AT (30)	Apply
	GE4	Enabled	No PD		Low	0	AT (30)	Apply

These parameters are explained as follows:

ltem	Description
PoE Mode	<b>Auto</b> – Provides plug and play PoE function. PoE schedule and Power Limit are disabled in this mode.
	Manual – Before using scheduled PoE, set Manual as PoE mode.
	<b>Disable</b> - Disable the PoE function.
Port	Use the drop-down list to select the GE port for applying the settings configured above.
	Select/Deselect All - Check to select or deselect all the GE ports.
Enable	Switch the toggle to enable/disable settings configured on this page.
Priority	Specify the priority of the GE port.
Power Limit	Select the power limit (AT or AF).
Apply	Save the current settings.

#### 9.3.3.2 Schedule

#### **Schedule Profile**

This page displays the schedule profiles (1 to 15), with related settings. It is available when **Manual** is set as **PoE Mode**.

Properties	PQ212	1xb_1449BC50673	D / Configuration	/ PoE				
	Sched	ule Profile Pr	ort Scheduling					
								Current Local Time: 2023-03-16 15:33
	🗥 Sch	edule is only avail	able in Manual Mod	le !				
	Schedu	ule Profile						
	Index	J† Enable	47 Description	11 Start Date	과 Start Time	47 Duration Time	4th Action	How Often
	1	Disabled		2023-03-16	00:00	00:00	Power On	Once
	2	Disabled		2023-03-16	00:00	00:00	Power On	Once
	3	Disabled		2023-03-16	00:00	00:00	Power On	Once
	-4	Disabled		2023-03-16	00-00	00-00	Power On	Ônce
	5	Disabled		2023-03-16	00:00	00:00	Power On	Once
	6	Disabled		2023-03-16	00:00	00:00	Power On	Once
	7	Disabled		2023-03-16	00:00	00:00	Power On	Once
	8	Disabled		2023-03-16	00:00	00:00	Power On	Once
	9	Disabled		2023-03-16	00:00	00:00	Power On	Once
	10	Disabled		2023-03-16	00:00	00:00	Power On	Once
	11	Disabled		2023-03-16	00:00	00:00	Power On	Once
	12	Disabled		2023-03-16	00:00	00:00	Power On	Once
	13	Disabled		2023-03-16	00:00	00:00	Power On	Once
	14	Disabled		2023-03-16	00:00	00:00	Power On	Once
	15	Disabled		2023-03-16	00:00	00:00	Power On	Once

To configure the schedule profile, move the mouse cursor on the index number of the profile you want to change and click it. The configuration page will be shown as the following.

Q2121xb_1449BC50673D / C	Configuration / PoE	
Schedule Profile Port Sch	heduling	
		Current Local Time: 2
chedule Profile Setting –		
chedule Index	2	
nable		
escription		
tart Date	2023-03-16	
tart Time		
tart fille		
uration Time	0 ~ : 0 ~	
ction	Power Off Power On	
low Often		
low Olten	Once V Once	
	Weekdays	
	Monthly, on date Cycle duration	× Cance

ltem	Description	
<b>PoE ModeAuto</b> – Provides plug and play PoE function. PoE schedule and F are disabled in this mode.		
	Manual – Before using scheduled PoE, set Manual as PoE mode.	
	<b>Disable</b> - Disable the PoE function.	
Port	Use the drop-down list to select the GE port for applying the settings configured above.	

	Select/Deselect All - Check to select or deselect all the GE ports.
Enable	Switch the toggle to enable/disable settings configured on this page.
Priority	Specify the priority of the GE port.
Power Limit	Select the power limit (AT or AF).
Apply	Save the current settings.

#### Port Scheduling

This page allows you to specify a schedule for each GE port.

PQ2121xb_14498C50673D V		<b>Dray</b> Tel	VigorConnect	System Time 15:50 16/03/20	23 System Administrator R
Properties	PQ2121xb_1449BC	50673D / Configuration / PoE			a
Schedute	Schedule Profile	Port Scheduling			
					Current Local Time: 2023-03-16 15:49:47
	Port Scheduling				
	Port				
		Select / Deselect All			
	Schedule Index	None			
				Apply	
	Port Sched	tule			
	GE1 None	e de la companya de la			
	GE2 None	·			
	GE3 None				
	GE4 None				
	GE5 None	e e e e e e e e e e e e e e e e e e e			
	GE6 None				
	GE7 None				
	GE8 None				

ltem	Description
Port	Use the drop-down list to select the GE port for applying the settings configured below. Select/Deselect All - Check to select or deselect all the GE ports.
Schedule Index	Select the index number of the schedule profile to apply to the GE port.
Apply	Save the current settings.

#### 9.3.4 SysLog Settings for a Switch

SysLog is provided for users to monitor a switch. There is no bother to directly get into the Web user interface of the switch or borrow debug equipment. This page allows you to specify the IP address, and port number for the SysLog server.

	G2280x_0···~	Dray Tek VigorConnect		
(7)	Configuration / SysLog Settings		С	
<u></u>	Enable SysLog Server			
¢¦\$	Server IP Address	IPv4 format (EX : 123.12.1.1)		
Z	Server Port	514		
			D fam.	
ŝ			🕅 Save	J
23				
(i)				

These parameters are explained as follows:

Item Description	
Enable SysLog Server	Switch the toggle to enable/disable the SysLog Server settings.
Server IP Address	Enter the IPv4 address of the server.
Server Port	Displays the port number used by the server.
Save	Save the current settings.

#### 9.3.5 Mesh for an AP

The mesh configuration is available for Vigor access point only.

This page allows you select mesh node(s) to be grouped under an existing mesh root (in this case, AP903).

1. Click **+Add**.

P 903_00507FF19216	~		Dra	<b>y</b> Tel	<b>k</b> Vig	orConnec	t			System Time 10:56 16/03/2023	root System Administrator	F
configuration / Mesh												
esh Group												
Add D Reset												
ame	Mesh Group	MAC Address	Model Name	Status	Нор	Uplink	Signal	Clients	Action			
_ 🙆 AP 903_00507FF19216	VigorMeshF19216	00:50:7F:F1:92:16	VigorAP 903	Online	0			1				

These parameters are explained as follows:

ltem	Description
+Add	Create a new mesh group.
Reset	Reset current page.

2. Click **+Add**. The system will search for available mesh nodes near the mesh root, then display them on the page.

AP 903_005070	F19216 🗸	DrayTek vis	orConnect	System Time 10:58 16/03/2023	root System Administrator	R
Configuratio	n / Mesh					
Mesh Group						
= Then	esh group can have up to 8 nodes with	Mesh Root included. There are 2/8 node	(s) in the mesh group curre	entiy.		
Select / I	eselect All				Q	Discover
Action	Device Name	ма	AC Address	Model		
8	VigorAP1000C	00	1DAA04F06C	VigorAP 1000C		
0	Unknown	14	49BC51B79C	VigorAP Unknown	n	
						_
					Cancel	Add

These parameters are explained as follows:

ltem	Description
Select/Deselect All	Check the box to select all the devices listed on this page.
Discover	Click to search more mesh nodes.
Action	Check the box to select the device.
Device Name	Displays the name of the device for identification if there is more than one of the same model.
MAC Address	Displays the MAC address of the device.
Model	Displays the model of the device.
Cancel	Discards current settings.
Add	Make the selected device group under the mesh root.

3. Select the mesh node you want and click **Add** to make the new device grouped under the mesh root.

₽ 903_00507FF19216 ✓	Dray Tek VigorConnect					System Time 10:42 16/03/2023			root System Administrator	R	
onfiguration / Mesh											
esh Group											
Add D Reset											C
ame	Mesh Group	MAC Address	Model Name	Status	Нор	Uplink	Signal		Clients	Action	
- 😁 AP 903_00507FF19216	VigorMeshF19216	00:50:7F:F1:92:16	VigorAP 903	Online	0				1		
L 👩 AP 1000C_001DAA04F06C		00:1D:AA:04:F0:6C	VigorAP 1000C	Online(sync ready)	1	Wireless 5GHz (Ch36)	-39dBm	÷	0	Delete	

Click **Delete** to remove the unnecessary mesh node.

#### 9.3.6 SysLog Settings for an AP

SysLog is provided for users to monitor AP. There is no bother to directly get into the Web user interface of the AP or borrow debug equipment. This page allows you to specify the IP address, and port number for the SysLog server.

	AP 903_0···· ~	Dray Tek VigorConnect	
(7)	Configuration / SysLog Settings		С
<u></u>	Enable SysLog Server		
ţţ	Server IP Address	IPv4 format (EX : 123.12.1.1)	
Z	Server Port	514	
ŝ			🕅 Save
스와			
(j)			

ltem	Description			
Enable SysLog Server	Switch the toggle to enable/disable the SysLog Server settings.			
Server IP Address	Enter the IPv4 address of the server.			
Server Port	Displays the port number used by the server.			
Save	e Save the current settings.			