

VigorConnect

The Management Software Connects Your Vigor Devices

USER'S GUIDE

V1.1



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User's Guide

Version: 1.1

Firmware Version: V1.2.0

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Safety Instructions and Approval

Safety Instructions	 Read the installation guide thoroughly before you set up the modem. The modem is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the modem yourself. Do not place the modem in a damp or humid place, e.g. a bathroom. The modem should be used in a sheltered area, within a temperature range of +5 to +40 Celsius. Do not expose the modem to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources. Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards. Keep the package out of reach of children. When you want to dispose of the modem, please follow local regulations on conservation of the environment.
Warranty	We warrant to the original end user (purchaser) that the modem will be free from any defects in workmanship or materials for a period of one (1) year from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.
Be a Registered Owner	Web registration is preferred. You can register your Vigor modem via http://www.draytek.com.
Firmware & Tools Updates	Due to the continuous evolution of DrayTek technology, all modems will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents. http://www.draytek.com

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Part I Introduction



I-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

I-2 Installation

Follow the steps below.

- 1. Visit www.draytek.com.
- 2. Open Products>>Management Tools>>DrayTek Utility.

Dray Tek	I	PRODUCTS	SOLUTIONS	SUPPORT	ABOUT	PARTNERS	中文	MyVigor
	ROUTERS	SM	ART HOME/SOHO	ACC	ESS POINTS		MANAGEN	IENT TOOLS
	VPN Routers	Vig	or2133 Series	Vigo	orAP 903		Smart VPN	l Client
	Load Balancing Routers	Vig	or2762 Series	Vigo	orAP 910C		VigorACS	2
Street and a street of the local division of	DSL Modem Routers	SM	B NETWORK	All	Acess Points		DrayTek U	Itility 🌶
	LTE Routers	Vig	or2926 Series	AP	Matrix 🎛		ACCESSOF	RIES
	All Routers	Vig	or2862 Series	SWI	TCHES		WCF Licen	se

3. Locate VigorConnect.

Dray Tek

PRODUCTS SOLUTIONS SUPPORT ABOUT PARTNERS 中文 MyVigor

DrayTek Utility

The free software tools for DrayTek users

Name	Version	Download	Release Note	Support OS	Last Update	Checksum
DrayTek Wireless (Android)	1.0.3	۲	D	Android 4.0.3 or later	May 31, 2019	
Firmware Upgrade Utility	3.6.10	۲	۵	Windows 10, 7, Vista, XP	May 29, 2019	
DrayTek Wireless (IOS)	1.0.4	۲		iOS 11.0 or later	Feb 13, 2019	
Smart VPN Client (Windows)	5.0.2	۲	D	Windows 10, 8, 7, Vista, Windows Server 2012 R2	May 14, 2019	
Smart VPN Client (IOS)	1.4.1	۲		IOS 9.0 or later	Apr 30, 2019	
Smart VPN Client (macOS)	1.2.0	۲		OS X 10.11 or later	Dec 08, 2017	

- 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 1.1.0 Setup	
Choose Install Location Choose the folder in which to install VigorConnect 1.1.0.	
Setup will install VigorConnect 1.1.0 in the following folder. To install in a di Browse and select another folder. Click Install to start the installation.	fferent folder, click
Destination Folder C: \Program Files\VigorConnect	Browse
Space required: 265.6MB Space available: 24.9GB	
Nullsoft Install System v2.51	Cancel

8. Wait for required files installing onto your computer.

🕞 VigorConnect 1.1.0 Setup	
Installing Please wait while VigorConnect 1.1.0 is being installed.	
Extract: influx_stress.exe	
Create folder: C:\Program Files\VigorConnect\Log\ERROR Create folder: C:\Program Files\VigorConnect\Log\FATAL Create folder: C:\Program Files\VigorConnect\Log\PANIC Output folder: C:\Program Files\VigorConnect\InfluxDB\bin Extract: chronograf-v1.db 100% Extract: chronograf-v1.db.lock Extract: chronograf.exe 100% Extract: influx.exe 100% Extract: influx_inspect.exe 100% Extract: influx_stress.exe	A III V
Nullsoft Install System v2.51	Cancel

9. Then, the setup dialog with default values will appear. Click **OK.**

📰 VigorConnect Setup	×
HTTP	
Port:	9292
enable	🔘 Disable
HTTPS	
Port:	4433
Enable	🔘 Disable
Cert File: Server.cert	
Key File: Server.key	
InfluxDB	
DB Port:	8091
HTTP Port:	8089
Outbound IP:	0.0.0.0 (all) 🗸
Run As Service	
	<u>o</u> k

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

VigorConnect Setup 🛛 🗾
Set successfully.
確定

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



I-3 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).

1. 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**.

DrayTek VigorConnect			0 EN *
	Login to Vigo	rConnect	
	User Name		
	Password		
	Validation Code	\$572.	
	Remember me		
	Login		
	Copyright @ 2017-2019 DrayTek	Corp. All Rights Reserved.	

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.

ASAP.	igorConnect is still set to the default passwo	rd. Please change it Change password Cancel
	6946	* خ

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

DrayTek VigorConne	ict .			09 43 26/11/2019	R Internetiate
Q Search	Root Network			Auto Ri	etresti: 1 Minute • C •
Root Network C	Device Overview	≣ Category • – 🖍 🛪	New Devices	≡0	inmanaged Devices* = 🖉 🛪
NETWORK MENU	Root Network		Select / Deselect All	Device Name	Device Type
Dashboard	Alam 1 OFFLINE			Edital Contract	
Monitoring				No data available	
Configuration					
SYSTEM MENU					
Maintenance					
Network Management					
System					QDistancer
User	Active Clients + Top10+	O Last 24 hours* - 🖋 🛪			
About		o Total			
	12:00 16:00 20:00	00.00 04.00 08.00			
	Total Current:0	0%			
	P2121_001DAA4CE9BC Current 0	0%			
	AP 810 001DAA7D6514 Current 0	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.

I-4 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.**

System Time 09:45 28/11/2019	R root System Administrator
Auto Refre	Auto Logout 🔹
≡ Unm	Set Password
	Two-factor Authentication
Device Name	😃 Log Out

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	imp88ortan5_123_d	Ø
Confirm Password	medium	۲
		🖺 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.

I-5 Dashboard

Dashboard shows the statistics of unread events, access points, rogue APs, traffic and wireless clients.

Click **NETWORK MENU>>Dashboard** from the main menu on the left side of the main page.

■ DrayTek VigorConnect				System Terr 10 17 20/06/2019	R Foot System Administrator
Q Search	Root Network			Auto Re	fresh: 1 Minute 🔻 🛇 🔅 -
Root Network	Device Overview	≡ Category • - 🖍 🛪	New Devices	≡Ur	managed Devices* - 🖉 🛪
NETWORK MENU	Root Network		Select / Deselect All Action IP Address	Device Name	Device Type
Dashboard	Atarm 0 OFFLINE()			No data available	
Monitoring					
Configuration					
SYSTEM MENU					
Maintenance					
Network Management					
System User	Active Clients - Top10+ O	© Last 24 hours → 🖋 🗴			✓Add QDiscovery
About		U IVIA			
	01-08:00				

The information displayed on dashboard will be changed based on the network, group or device selected. To switch the dashboard among network, group and device, simply click **Root Network** on the home page to expand the tree view.

Q Search	
Root Network	
Network Model	\$• C
Root Network(2)	
VigorAP 810_00	1DAA7D6514
A VigorSwitch P21	21_001DAA4CE

I-5-1 Dashboard for Network (Root Network)

The dashboard displays brief and quick overview information for the devices (Access Point or/and VigorSwitch) managed by VigorConnect.

■ Dray Tek VigorConnect				09.50 28/11/2019	R fixt
Q, Search	8 Root Network			Auto	Retresh: 1 Minute • C •
Root Network	Device Overview	≣ Category * - ,* x	New Devices	=	Unmanaged Devices* - 🖌 🗙
NETWORK MENU	Root Network		Select / Deselect All Action WebLogin@IP	Device Name	Device Type
Dashboard	Aum 1 OFFLINE 1		2 0	No data available	
Monitoring					
Configuration					
SYSTEM MENU					
Maintenance					
Network Management					
System					QDacover
User	Active Clients - Top10+	O Last 24 hours* = 🗸 🗴			
About	3	o Total			
	12:00 16:00 20:00	00:00 04:00 08:00			
	Total Current.0	0%			
	P2121_001DAA4CE9BC Current0	0%			

This page offers information about device overview (including device name, model, MAC, Up Time, Firmware Version), top 10 clients, new devices, and traffic top 10 for the selected group.

DrayTek VigorConnec	t						09.53 28/11/2019	R FOOT Cynthere Administratio	
Q. Search	🚳 Root Network						Aut	o Refresh: 1 Minute • C	0.
Root Network	Device Overview		≣ Category	• - / x	New Devi	ces	1	Unmanaged Devices* -	~ ×
NETWORK MENU	Device Name	Model	MAC	UP Time		/ Deselect All			
Dashboard	VigorAP 810_001DAA7D6514	VigorAP 810	001DAA7D6514	2d: 17h: 5m: 56r	Action	WebLogin@IP	Device Name	Device Type	
Monitoring Configuration	VigorSwitch P2121_001DAA4CE98C	VigorSwitch P2121	001DAA4CE9BC	0d:0h:0m:0s			No data available		
SYSTEM MENU Maintenance Network Management			jee ee	1/1 10 10(
System User	Active Clients - Top10+		O Last 24 hour	* ×				QD	Access
About	1			o Total					
	12.00 18.00 Total Current 0 P2121_001DAA4CE9BC Current 0	20:00 00:00	04.00	05:00 D%					
	AP 810_001DAA7D6514 Current 0			0%					

I-5-2 Dashboard for Device (Inventory View)

Root Network shows a tree view for all of the managed devices (Access Point) grouped under different networks.

Inventory view allows the devices to be divided and categorized with the model series, such as VigorAP 810, VigorAP 902, and so on.



Click **Network** to display Root Network view; click **Model** to display the Inventory view.

ute •
ow more
ow more
Proxy
PICKY
+ A01

I-5-3 Top 10 for Clients

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

Dray Tek VigorCon	nect		16/49 3007/2019 (R) 10/1
Search			
Root Network	0		
WORK MENU			
Deshboard			
Monitoring	Active Clients - Top10+	OlastJáhozs* – 🗸 🗴	✓AM QDm.
Configuration		o Total	
TEM MENU	,	0.00	
Maintenance	2		
Network Management	1		
System	18.00 20.00 22.00 00.00 02.00 04.00 06.00 10.00	12:00 14:00 10:00	
User	Total Current 2	100%	
About	AP 920R_001DAA5CA658 Current 1	50%	
	AP 1000C_001DAA67D640 Current:1	50%	
	AP 802_001DAAEE27B8 Current:0	0%	
	AP 800_00607F823820 Current 0	0%	

I-5-4 Icons Used in VigorConnect

ltem	Description
+	Add a new device.
- / 2	Hide the page / Display the page in fullscreen.
×	Delete the selected widget.
	Switch these two icons by click the mouse cursor on it. - means "Enable". - means "Disable".

I-6 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.

Login to VigorConnect	:
User Name	
Password	۲
Validation Code	\$572
Remember me	
Login	
Copyright © 2017-2019 DrayTek Corp. All Rights F	Reserved.

3. Open Root>>Two-factor Authentication.



4. Enable the button of **Enable two-factor authentication**.

Two-factor authen	tication
Account : root	
Enable two-factor authentication	
 Get and insta Scan a barco Click save but 	Factor Authentication please follow the instructions below. Il Google Authenticator (iOS/Android) de or manual input secret key tton to verify code which generated from APPs ttion: You should backup secret key or barcode
Description	root@VigorConnect Display in App: root@VigorConnect.
QR-Code	
Manual Input	H3FWF3KA3ZU3JQ4V
Verification Code	
	🗙 Cancel 🖺 Save

5. Use your cell phone to scan the QR-Code shown on the page or enter the secret key displayed on the box of **Manual Input**.

QR-Code	
Manual Input	H3FWF3KA3ZU3JQ4V
Verification Code	

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

Verification Code	

- 7. Logout VigorConnect.
- 8. Re-login VigorConnect. The first login web page requires you to enter the original user account and password. After clicking the Login button, the **second** login web page appears. Please enter the authentication code (created randomly) obtained from the APP (Google Authenticator) on your cell phone and click the Verify Code button.

Login to VigorConnect
Two-factor Authentication code
Verify Code
Abort
Copyright @ 2017-2019 DrayTek Corp. All Rights Reserved.

I-7 Discover LAN AP Devices

AP devices on LAN can be managed by VigorConnect.

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

Root Network			Auto Re	tresh: 1 Minute • O 🔅 •
Device Overview	\equiv Category \sim - e^{s} ×	New Devices	≡Ur	managed Devices* — x* x
ONLINE1		Select / Deselect All Action WebLogin@IP	Device Name	Device Type
			No data available	
Active Clients - Top10+	⊙ Last 24 hours • - e ^s x			QDiscover

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

Device Overview	≡ Category • – 🖉 🛪	New De	vices	■ Unmanaged Devices*	- 7
Root Network			ct / Deselect All WebLogin@IP	Device Name	Device
Alum 1 OFFLINE 1			admin admin @192.168.105.53.	443 AP1000C_001DAA04F06C	AP1000
		0	admin admin @192.168.105.18	0443 P1280_001DAA06F2A3	P1280
			admin admin @192.168.105.168	443 P2280_001DAA0C81D0	P2280
			admin @192.168.105.188	6443 P2280_001DAA0CB609	P2280
		0	admin admin @192.168.105.92	443 AP920R_001DAA223344	AP920F

3. Check the one(s) which will be managed by VigorConnect and click **Add**.

New D	evices		≡ Unmanaged Devices▼	$= \mathcal{L} \times$
Sel	ect / Deselect All			
Action	WebLogin@IP		Device Name	Device
	admin admin	@192.168.105.53:443	AP1000C_001DAA04F06C	AP1000
	admin : admin	@192.168.105.185:443	P1280_001DAA06F2A3	P1280
	admin :admin	@192.168.105.168:443	P2280_001DAA0C81D0	P2280
	admin :admin	@192.168.105.186:443	P2280_001DAA0CB609	P2280
	admin : admin	@192.168.105.92:443	AP920R_001DAA223344	AP920R
			✔Add	QDiscover

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

Categorized by network:

Network Overview	≡ Category × ×	New Devices	Unmanaged Devices•	- /
Root Network	Network Device	Select / Deselect All	Device Name	Device
Alarm 1 OFFLINE 1		admin admin @192.168.10	05 53:443 AP1000C_001DAA04F06C	AP1000
		admin admin @192.168.10	05.92:443 AP920R_001DAA223344	AP920R
		admin admin @192.168.10	05.101:443 AP920RPD_001DAA3F3674	AP920F
		admin admin @192.168.10	05.45:443 P2280X_001DAA43E738	P2280X
		admin admin @192.168.10	05.184:443 G2500_001DAA4C194F	G2500

Categorized by Device:

evice Overview		■ Category	• - / ×	New De	vices	■ Unmanaged Devices*	- ~ >
Device Name	Model	MAC	UP Time	() Sele	ct / Deselect All		
P1280_001DAA06F2A3	VigorSwitch P1280	001DAA06F2A3	0d.0h.0m.0s	Action	WebLogin@IP	Device Name	Device
P2280_001DAA0C81D0	VigorSwitch P2260	001DAA0C61D0	0d:0h:0m:0s		admin @192.168.105.53.44	AP1000C_001DAA04F06C	AP1000
P2280_001DAA0C8609	VigorSwitch P2280	001DAA0CB609	0d 1h 24m 4s		admin admin @192.168.105.92.44	AP920R_001DAA223344	AP9206
VigorAP 810_001DAA7D6514	VigorAP 810	001DAA7D6514	2d 17h 34m 4:	ノ	admin admin @192.168.105.101.4	3 AP920RPD_001DAA3F3674	AP920R
τ			,	0	admin @192.168.105.45.44	P2280X_001DAA43E738	P2280X
		H4 44	4/1 16 181	0	admin admin @192.168.105.184.4	G2500_001DAA4C194F	G2500 -
ctive Clients - Top10+		O Last 24 hours	s= - / ×				QDiscover



To prevent management conflict occurred between Vigor device and VigorConnect, when VigorAP is installed behind a Vigor router, remember to disable the AP Management function on router end.

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*.

- 1. From the SYSTEM MENU, click Network Management.
- 2. When the following page appears, click the link of **+Add New Network**.

Search by Device ID/Name/Model/MAC/IP Addr	Setting		
4 Root Network(0)	+ Add New Network		
	Network ID	User Name	
	2	205	
	Name	Password	
	Root Network		
	Location		
			-19 Save

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

	A Network Manadement		
dd Network			
Parent Network			
Root Network			
Name			
Marketing_Carrie			*
Location			
HS			
User Name			
carrie			*
Password			
			۲
			_
		× Cancel	+ ^

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.

Search by Device ID/Name/Model/MAC/IP Addr	Setting
Root Network(0)	
Marketing_Carrie(0)	+ Add New Network
	Network ID
	2
	Name
	Root Network
	Location

A-2 How to Assign a New Added AP 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 and display the device(s) on this page.

Q, Search	3	Marketing_Carrie						Auto R	etrest: Disable • C •
Marketing_Carrie	•	Jevice Overview		≡ Category +	- 2 ×	New Device	es	=	Inmanaged Devices* - 🗸 🗴
NETWORK MENU Dashboard		Marketing_Ca ONLINE0 OFFLNE0				C Select /	Deselect All WebLogin@IP	Device Name	Device Type
Monitoring Configuration								No data avanable	
SYSTEM MENU Maintenance Network Management System									
User About	,	ctive Clients - Top10+ O		O Last 24 hours•	- / x				QBasses
			01-08.00						

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

Jevice Overview	≡ Category + - → ×	New De	vices	■ Unmanaged Devices•	- 2
Marketing_Ca ONLINE0			ct / Deselect All WebLogin@IP	Device Name	Device
Alarm 0 OFFLINE()			admin admin @192.168.105.53.443	AP1000C_001DAA04F06C	AP1000
			admin admin @192.168.105.92:443	AP920R_001DAA223344	AP920R
		0	admin admin @192.168.105.101.44	3 AP920RPD_001DAA3F3674	AP920R
		0	admin admin @192.160.105.45.443	P2280X_001DAA43E738	P2280X
			admin @192.168.105.184.44	3 G2500_001DAA4C194F	G2500

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

Device Overview	≡Category • - 2* ×	New De	vices	E Unmanaged Devices	
Marketing_Ca		Sele	ct / Deselect All		
Ammo OFFLINED		Action	WebLogin@IP	Device Name	Device Ty
Ammo OFFLINE()			admin admin @192.168.1.210.8	0 AP810_001DAA0F2E68	AP810
		0	admin @172.17.12.162	43 AP802_001DAA223300	AP802
		0	admin admin @172.17.12.65;4	3 AP802_001DAA225548	AP802
			admin admin @192.168.1.220.0	0 AP902_001DAA3D5490	AP902
		0	admin admin @172 16 21 59 4	3 AP920RP_001DAA632C38	AP920RP

- 5. Then, the selected devices will be shown under **Device Overview**.
 - Categorized by Network:

Marketing_Carrie	
Device Overview	\equiv Category \bullet - e^{x}
Marketing_Ca ONLINE2 Alarm 0 OFFLINE0	

Categorized by Device:

evice Overview			■ Category ▼	- 2
			Network	
Device Name	Model	MAC	Device	Firmwa
AP 810_001DAA0F2E68	VigorAP 810	001DAA0F2E68	8 24d:4h:21m:54s	1.2.6
AP 902 001DAA3D5490	VigorAP 902	001DAA3D5490	0 24d:4h:21m:51s	127

Part II SYSTEM MENU, System and User Settings Management



II-1 System

II-1-1 System Parameter

Open **SYSTEM MENU>>System** and click **System Parameter** to get the following web page:

Dray Tek VigorConn	nect		10.51 26/11/2019	R Ibot Bystem Administration
Search	¢¢ System ≈system	'arametar		
Root Network	0			c
TWORK MENU	ID	Name	Value	
Dashboard	1	EnableValidateCodeCheck	true	
Monitoring	2	EnableFirmwareCheck	true	
	3	ShowTreeCount	100	
Configuration	4	FWUpgradeFailinterval	86400	
STEM MENU	5	EnableOTAUpgrade	true	
Maintenance	6	O LogsRetentionDays	365	
Network Management	7	AutoDetectRouterName	false	
System	O Reset to default			🗶 Cancel 🔯 Save
System Parameter				
User				
About				
About				
	-	artes 224-222		

Available settings are explained as follows:

ID No.	Description
	Reset to default
	Click the link to reset all of the system parameters with factory default values.
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.
5	EnableOTAUpgrade
	If enabled (choosing true), the system will check for the new update once at 3:00 a.m. every day and download the file if it is available.
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.

II-1-2 Language

VigorConnect can be displayed and operated with different language texts. Choose the language system from the top-right of the login page. Later, VigorConnect will be shown with the language you want.



II-2 User

II-2-1 User Management

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.

To add, delete a user or check information for a user, open **SYSTEM MENU>>User** and choose **User Management.** This page displays basic information including username, authentication, role, status (active, inactive), mail notify (yes or no), SMS notify (yes or no), email address for the user.

■ DrayTek VigorConnect				10.38 26/11/2019	R tool Tystem Administration 🗶
Q Search	嶜 USEF >User Management				
Root Network (3) NETWORK MENU Dashboard Monitoring Configuration SYSTEM MENU Maintenance Network Management System User User User Management About	+ Add © Delte Show 10 • entries root Showing 1 to 1 of 1 entries	Authentication Internal	Role System Administrator	Search Status Previou	(Email
	Werston 120 Copyright © DrayTex Corp. All	lights Reserved.			Your reliable networking polutions partner

Available settings are explained as follows:

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

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

DrayTek VigorConne	ect			10.48.26/11/2019	R Tool System Astronomator
Q Search	USET >User Manager	ent.			
Root Network	Add User Profile				
ETWORK MENU	Enable				
Dashboard Monitoring	Username	Carrie_ni	1		
Configuration	Password	weak			
STEM MENU	Role	System Administrator			
Maintenance	Email	carrie@draytek.com	*		
Network Management System	Telephone	0910755288	1		
User	Description	ap_owner			
User Management					
About					🗶 Cancel 🛛 Create

Available settings are listed as follows:

ltem	Description
Enable	Click it to enable the user profile.
Username	Enter a name for the new user.
Password	Type the password for the user.
Role	Choose the role for the selected user . 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	Type the email for communication between the user and VigorConnect server.
Telephone	Type the telephone number for receiving the SMS notification.
Description	Enter a brief description for the user.
Cancel	Discard current settings.
Create	Click it to create a new user profile and exit the page.

II-3 About

II-3-1 Update

This page offers information for the newest version of VigorConnect.

DrayTek VigorConnect		10.51 28/11/2019	R 1001 Destami Administratur
Q. Search	About >update		
Root Network O	Upgrade Method	Auto check and download latest version, and notify you when ready (recommended) Notify you when new version available, but don't download automatically	
NETWORK MENU			
Dashboard	Installed Version	120	
Monitoring			
Configuration			
SYSTEM MENU			
Maintenance			
Network Management			
System			
User			
About			
Update License Agreements			

Available settings are listed as follows:

ltem	Description				
Upgrade Method	Auto check - After clicking it, you will be notified when the latest version is available.				
	Notify you - 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.				
Available Version	Display the newest and available software version allowed to be download for the update.				
	Click the download link to download the newest version. Later, update VigorConnect with the newest version.				

II-3-2 License Agreements

This page displays license information related to Apache, MIT, BSD 3-clause, BSD, ISC and zlib.

Root Network	Apache License, Versi	Apache License, Version 2.0			MIT			
(3)	Name	Author	Web Site	Name	Author	Web Site		
ETWORK MENU	ini.v1		*	Cron.v2	Rob Figueiredo	+		
Dashboard	Beego	astaole	*	Captcha	Dmitry Chestnykh	÷		
Monitoring	Otp	Paul Querna	\$	Go-humanize	Dustin Sallings	*		
Configuration	Go-http-auth	Lev Shamardin	B	Go-sqite3	mattn	Ð		
				Influxdb/client v2		*		
YSTEM MENU				Lane	Théo Crevon	٠		
Maintenance Network Management				ishell	Abiola Ibrahim	*		
System	BSD 3-clause License	BSD 3-clause License			BSD license			
User	Name	Author	Web Site	Name	Author	Web Site		
About	Xorm		*	Crypt2go	Andre Burgaud	*		
Update	Excelize		÷	Handlers		8		
License Agreements	goini	weizli	Ŷ	Walk	Alexander Neumann	*		
				With	Alexander Neumann	. *		

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Part III SYSTEM MENU, General Settings for Managing Device



III-1 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.

III-1-1 Settings for Network

To add, change or delete a network, please open **SYSTEM MENU >> Network Management.** Click **Root Network** or sub-network to get the following web page.

■ DrayTek VigorConnec	ct			15.21 15/07/2019	R 100 Technologian
Q Search	A Network Management				
Root Network	Search by Device (DName/Model/MAC/IP Address	O Setting			
NETWORK MENU Dashboard	Anot Network(2) VigorAP 810_001DAA0F2E68 VigorAP 902_001DAA3D5490	+ Add New Network			
Monitoring		Network ID	User Name		
Configuration		2	805		
		Name	Password		
SYSTEM MENU		Root Network			•
Maintenance		Location			
Network Management					
System					-
User					B Save
About					
	B Delete Devices				

ltem	Description
Search by Device ID/Name/Model/MAC / IP Address	Enter the ID, name, model or MAC address of the device you want to locate.
+Add New Network	Click it to add a new network.
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 it to save the change.

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

d Network	
Parent Network	
Root Network	
Name	
Marketing_carrie	
Location	
H\$	
Jser Name	
carrie	
Password	

Available settings are listed as follows:

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, Root Network is the parent network for any new created
	network.
Name	Enter a name for the new network.
Location	Type the location for the new network. Later, you can locate such network on the web page of SYSTEM MENU >> Network Management>>Map.
User Name	Enter a login name (e.g., carrie) for the new network which will be used for communication between Vigor device and VigorACS.
Password	Enter a password (e.g., admin123) for such new network. If you are going to group several devices under such network, please open System Maintenance>>TR-069 in the web configuration page of CPE Then, type the user name and password defined in this page (e.g., in this case, they are <i>carrie</i> and <i>admin123</i>) in the corresponding fields.
Cancel	Discard current settings.
+Add	Click it to create a new network profile and exit the page.

III-1-2 Settings for Device

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

Open **SYSTEM MENU >> Network Management.** This web page allows to:

- Modify the name of the device for easy identification and management by VigorConnect.
- Modify the user name/password of certain device (non-DrayTek CPE) to be managed by VigorConnect
- Enable or disable the management of the device for VigorConnect.

• Select certain protocol (e.g., TR-069) for the device for management.

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

■ DrayTek VigorConne	ct		10.56 28/11/2019	R Stot Stranstature M
Q Search	A Network Management			
Root Network (5) NETWORK MENU Dashboard Monitoring Configuration	Beach by Device (DRawerModelMAC/P Addec) A Root Network(5) A Markeling_Carrie(0) P1280_001DAA05F2A3 P2280_001DAA05F0A P2280_001DAA05F04 VigonAP B10_001AA7D5514	Setting B Delete This Device & Charge Network Status Disable Enodels	Kinown Device Kinown Ubidrown	
SYSTEM MENU Maintenance Network Management System	STEM MENU Maintenance Network Management	Device ID 5 Model Name Vigorskritch P1280 Note 1	Network ID 2 Device Name P1280_00104A06/2A3 Note 2	
User About		Serial number	MAC Address co1DAA06F2A3	
		Location	CPE Client IP 192.168.105.185	
	Delete Devices	Phone No.	CPE Client Port	
		Domain Name	CPE Client URI	

ltem	Description
Delete This Device	Click it to remove the selected device from current group.
Change Network	Click it to change the network / group for the selected device.
	Move the mouse cursor on the network you want and click Apply .
Status	Disable – The selected device will be hidden on the tree view. Enable – The selected device can be displayed on the tree view.
Known Device	Known – The selected device is known(^(L)) to VigorConnect. Unknown – If the selected device is new added device, it will be identified as Unknown (②).
Device ID / Network ID	 Device ID – Display the number of that device which is given by VigorConnect randomly. Network ID- Display the ID number of the network that selected device is grouped under.
Model Name / Device Name	 Model Name – Display the model name of the selected device. Model name cannot be changed. Device Name – Display the name of the device for identification. It can be changed if required.

Note 1 / Note 2	Note 1 – Display brief description for the selected device. Note 2 – Display brief description for the network.
Serial number / MAC Address	Serial number – Enter a number for identification of the device. MAC Address – Display the MAC address of the device.
Location	Display 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 device. Later, simply click the domain name to access into the CPE.
Management Protocol	Choose HTTPS or HTTP.
Management Port	Enter a port number which will be used for accessing into web user interface of the device.
IP / Port / URI	Display the IP address, port number and URI.
User Name / Password	Display the username and password that VigorConnect can use to access into such device.

III-1-3 Delete Devices

To delete devices under certain network (e.g., root network), please open **SYSTEM MENU >> Network Management.**

DrayTek VigorConnect			10.56 28/11/2019	R 1001 Typices Adventuator M
Q Search	🛦 Network Management			
Root Network (5) NETWORK MENU Dashboard Monitoring Configuration SYSTEM MENU Maintenance Network Management System User About	Search by Device (Dilacew/ModelModelModelModelModelModelModelModel	Setting	Known Device Fromm Ebitrown Network ID 2 Device Name P1280_001DAA0672A3 Note 2 MCC Address 001DAA0672A3	
	B Delete Devices	Location Phone No Domain Name	CPE Client IP 192.168.105.185 CPE Client Port 5059 CPE Client UR	

Click **Delete Devices**. A pop-up dialog will appear as follows.

Search	& Network	Management			
Root Network 5) WORK MENU Dashboard Joniforing Configuration	Search by Denico A A Root Nets A Marke @ P1280 @ P2280 @ P2280 @ Vigors @ Vigors @ Vigors	Delete Devices Clear TR069 URL Vis No Note: Delete and clear TR069 URL from device to pre Select Devices	vent it rejoining auto	imatically.	nce Urbnown
TEM MENU		Name	Model Name	Firmware Version	
letwork Management		Marketing_Carrie(0)			me 01DAA06F2A3
System Jser		2 0 P2280_001DAA0C81D0	VigorSwitch P1280 VigorSwitch P2280	2.5.1_RC2 2.5.1_RC1	
About			VigorSwitch P2280 VigorAP 810 VigorSwitch P2121	251_R02 128 251_R02	aas 3072A3
				¥ Close E Delote	(IP)05,185
	a Delay Delay	Phone No.		CPE	Cient Port

Select the device (e.g., P2280) to be removed from a network by checking the box in the front of the entry. Then click **Delete**.

Q. Search	🛔 Network Management			
Root Network (4) NETWORK MENU Dashboard Monitoring Configuration SYSTEM MENU Maintenance Network Mansgement System User About	State by Devel DNameModelMACIP Addree	Setting Add New Network Network ID 2 Name Root Network Location	User Name dts Password	• •
	Deter Devices			

III-2 Maintenance

Options in Maintenance are configured and applied onto numerous TR-069 devices instead of configuring settings for each device one by one.

III-2-1 Scheduled Backup

III-2-1-1 Network & Devices

Such 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.

Search	Maintenance >Scheduled Backup				R Isot System Administration
Root Network ©	Networks & Devices Backup Settings Profile	File Type		Backup Setting	
Dashboard	 Root Network(4) 	Configuration File		Disabled	•
Monitoring	Marketing_Carrie(0)	Configuration File		As Parent	
Configuration	O VigorAP 610_001DAA7D6514	Configuration File		As Parent	
	O VigorSwitch P2121_001DAA4CE98C	Configuration File	٠	As Parent	
STEM MENU	C P1260_001DAA06F2A3	Configuration File		As Parent	•
Maintenance	C P2250_001DAA0C61D0	Configuration File		As Palant	
Configuration Restore Firmware Upgrade Device Reboot Schedule Profile File Manager					R) Se
Network Management					and the second
System					
User					

Available settings are explained as follows:

ltem	Description
Name	Specify a user group for applying the backup settings profile. Each user group can be configured with different backup settings profiles.
File Type	Display the file type used for the device.
Backup Setting	Choose a profile defined in Backup Settings Profile for applying onto the selected device.
Save	Save the current settings.

Click **Save** to save these settings.

III-2-1-2 Backup Settings Profile

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

DrayTek VigorConne	ect				11.16.28/11/2019	R International Y
Q Search	📕 Maintenand	CIP >Scheduled Backup				
Root Network	Networks & Devices	Backup Settings Profile				
ETWORK MENU	+ Add					
Dashboard	Name	Period(Days)	Type	Time Interval	Action	
Monitoring	Default	1	The Last 20	Now	🖌 Edit 🗎 Delete	
Configuration						
YSTEM MENU						
Maintenance						
Scheduled Backup						
Configuration Restore						
Firmware Upgrade						
Device Reboot						
Schedule Profile						
File Manager						
Network Management						
System						
User						
About						
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Available settings are explained as follows:

ltem	Description	
+Add	Click it to create a new profile.	
Name	Display the name of the profile.	
Period(Days)Display the interval for the backup executed.		
Туре	Display the type (The Last 20 / All) selected for the profile.	
Time Interval	Display the time interval setting for the profile.	
Action	Edit - Click it to modify, change the selected profile.	
	Delete - Click it to delete the selected profile.	

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

■ Dray Tek VigorConnec	at and a second s			11 20 28/11/2019	R fool Optimer Administrator
Q Search	✤ Maintenance »sched	uled Backup			
Root Network	Networks & Devices Backup 1	ettings Profile			
NETWORK MENU	Name	nini	~		
Dashboard Monitoring	Backup Period(days)	[t			
Configuration	Keep Files	The Last 20 All			
SYSTEM MENU	Backup Time	Now Scheduled	Schudule Profile		
Maintenance	Schedule Profile	default default	•		
Scheduled Backup Configuration Restore Firmware Upgrade Device Reboot Schedule Profile File Manager Network Management System User					x Cancel 23 Sove
About					
	(Weston 1.2.0) Copyright © DrayTek Corp	All Rights Reserved.			Your reliable networking solutions partner

Item	Description
Name	Enter a name of the backup profile.
Backup Period(days)	The number entered here determines the frequency for the backup executed by VigorConnect. The default value is 1 day. 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 (router's configuration files) or the last 20 files.
Backup Time	Set a time interval for executing the backup work for networks and devices.
	Now
	Scheduled
	Schedule Profile
Start Time / End Time	It is available when Scheduled is selected as the Backup Time .
	Click Select time to display a clock. Set the hour and minutes by clicking the number on the clock.

	e 00 : 00	
	23 00 13 22 11 12 1 14 21 9 3 15 20 7 6 5 16 19 18 17 ■ _start time Select time	d Schedule Profile End Time Select time
Specify Start Date	It is available when Scheduled is select Click it to enable the time setting. Date – Click it to pop up a calendar to date.	
Schedule Profile	It is available when Scheduled Profile Time. Choose a trigger profile from the drop VigorConnect offers default schedule	o down list. In which,

III-2-2 Configuration Restore

III-2-2-1 Apply to Devices

The user can apply the configuration file (for system restoration) to the VigorAP managed by VigorConnect immediately or within a scheduled time.

λ Search	Maintenance	e			
Root Network	Apply to Devices Restore Settings Profile				
ETWORK MENU					c
Dashboard	Name	Apply	File List	Restore Profile	
Monitoring	 Root Network(4) 				
Configuration	Marketing_Carrie(0)				
	O VIgorAP 810_001DAA7D6514	0		•	
STEM MENU	VigorSwitch P2121_001DAA4CE98	c)			
Maintenance	P1280_001DAA06F2A3	0			
Scheduled Backup	P2280_001DAA0C81D0	0			
Configuration Restore		ω			
Firmware Upgrade					
Device Reboot					
Schedule Profile					
File Manager					
Network Management					B Sav
Network Management					B Sav
He Manager Network Management System User					B Sav

ltem	Description						
Name	Display the name of the network, group and managed device(s).						
Apply	Click the toggle to activate the configuration restoration for the selected AP device by using the Restore Profile .						
File List	Click it to open the following page. Choose a configuration file related to the selected AP device and click Close .						
	Select a config file						
	Filename	* Property) Size	Last Modified	File Path		
	* 1	Directory	0 Byte	07/24/2019 13:46:31	./RootGroup/Marketing_Carrie		
	Notice: To restore a CFG file from To apply AGL CFG file to <i>I</i> reset to factory settings, so th	Ps, please make s	ure the firm	ware version is 1.2.5 or ne	wer. With old firmware, your AP migt	it be	
	1						
Restore Profile	Choose a schedul the drop down lis	•			e Settings Profile ce.) fror	

III-2-2-2 Restore Settings Profile

The user can define several profiles for executing the restoration job at specified date and time.

DrayTek VigorConnect				11 30 25/11/2019	R foot System Administrator
Q Search	🖋 Maintena	BINCE >Configuration Restore			
Root Network	Apply to Devices	Restore Settings Profile			
Dashboard	Name	Trigger Profile	Time Interval	Action	
Monitoring Configuration	Default	default	Now	✓ Edit	
SYSTEM MENU					
Maintenance					
Scheduled Backup Configuration Restore					
Firmware Upgrade Device Reboot					
Schedule Profile					
File Manager					
Network Management					
System					
User					
About					
	(Westion 1.2.0) Copyrig	tt © DrayTek Corp. Alt Rights Reserved.			Your reliable networking solutions partner

Available settings are explained as follows:

ltem	Description
+Add	Click it to create a new profile.
Name	Display the name of the restoration profile.
Trigger Profile	Display the schedule profile used by the restoration profile.
Time Interval	Display the type (e.g., Now, Scheduled or Schedule Profile) of time interval.
Action	Edit - Click it to modify the content of the restore setting profile.
	Delete - Click it to remove the setting profile.

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

■ DrayTek VigorConnect				11 32 28/11/2019	R 1001
Q. Search	Maintenance × Configuration Res	tore			
Root Network	Apply to Devices Restore Settings Profil	•			
NETWORK MENU					
Dashboard	Name				
Monitoring	Restore Time	Now Scheduled	Schedule Profile		
Configuration		Start Time	End Time		
SYSTEM MENU			Select time		
Maintenance	Specify Start Date	0			
Scheduled Backup	Date	Select a data	×		
Configuration Restore		< Nov * 2019 * >			
Firmware Upgrade		Su Mo Tu We Th Fr Sa			
Device Reboot		1 2 3 4 5 6 7 8 9			🗙 Cancel 🔯 Save
Schedule Profile		10 11 12 13 14 15 16			
File Manager		17 18 19 29 21 22 23			
Network Management		24 25 26 27 26 29 30			
System					
User					
About					
-	(Window 12.0) Copyright © Dray/Tek Corp. All Rights R	leserved			Your reliable networking solutions partner

ltem	Description					
Name	Enter a name of the restore profile.					
Restore Time	 Set a time interval for executing the restore work for networks and devices. Now Scheduled Schedule Profile 					
Start Time / End Time	It is available when Scheduled is selected as the Restore Time.					
	Click Select time to display a clock. Set the hour and minutes by clicking the number on the clock.					
	a 00 : 00					
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
	■ start rime Select time Select time					
Specify Start Date	It is available when Scheduled is selected as the Restore Time. Click it to pop up a calendar to choose a date as the starting date Click it to enable the date setting. Date - Click it to pop up a calendar to choose a date as the starting date. It is available when Schedule Profile is selected as the Restore Time. Choose a profile from the drop-down list (profiles defined in Maintenance>>Schedule Profile) to perform the configuration restoration. In general, VigorConnect offers a default schedule profile.					
Trigger Profile						

III-2-3 Firmware Upgrade

The user can perform the firmware upgrade for managed VigorAP devices easily through VigorConnect.

DrayTek VigorConnect	t				11 39 28/11/2019	R Koxt Dyslam Administrator
Q, Search	📕 Maintenance 🕫	mvare Upgrade				
Root Network	Firmware Upgrade Job	List				
IETWORK MENU	+ Add New Job @ Delete All	Complete Jobs				
Dashboard	Name 🔺 File Path	Schedule	Device Count	Status	Result	Action
Monitoring			N	o data available		
Configuration						
YSTEM MENU						
Maintenance						
Scheduled Backup						
Configuration Restore						
Firmware Upgrade						
Device Reboot						
Schedule Profile						
File Manager						
Network Management						
System						
User						
About						
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Available settings are explained as follows:

Item	Description
+Add New Job	Click it to create a new profile.
Delete All Complete Jobs	Click it to remove all jobs.
Name	Display the name of the firmware upgrade job profile.
File Path	Display the file path of the firmware on VigorConnect database.
Schedule	Display the name of the selected schedule profile or the period of time for executing upgrade job.
Device Count	Display the execution times of the firmware upgrade job.
Status	Display the status of the firmware upgrade job.
Result	Display the result of the firmware upgrade job.
Action	Edit - Click it to modify the content of the firmware upgrade profile. Delete - Click it to remove the profile.

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

DrayTek VigorConnec		11 44 26/11/2019 R root System Administration Sec.
Q. Search	Maintenance >Prmware Upgrade	
Root Network	Firmware Upgrade Job Settings	
NETWORK MENU Dashboard Monitoring Configuration	Name FW_Some Status Deutle End Upgrade Time Now School	and 100 End 100
SYSTEM MENU Maintenance Scheduled Backup Configuration Restore Firmware Upgrade	Date Select time Apply Firmware Device to Upgrade •	Select time
Device Roboot Schedule Profile File Manager Network Management System User About	ORoot Network(4) OMarketing_Carrie(0) OP 1220_001DAA05F2A3 001DAA05F2A3 Vigore	

Item	Description				
Name	Enter the name of the firmware upgrade profile.				
Status	 Disable - Disable the function of firmware upgrade. Enable - Enable the function of firmware upgrade. 				
Upgrade Time	Set a time interval for executing the upgrade work for netwo devices. Now				
	Scheduled				
	It is available when Scheduled is select Click Select time to display a clock. Select clicking the number on the clock. $\begin{array}{c} 00:00\\ 23\\ 23\\ 12\\ 11\\ 12\\ 1\\ 21\\ 9\\ 3\\ 15\\ 8\\ 4\\ \end{array}$				
	$20 \ 7 \ 6 \ 5 \ 16 \ 19 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 17 \ 18 \ 18$	Schedule Profile			
	™ start time	🛗 End Time			
	Select time	Select time			
	Date - Click it to pop up a calendar to o date.	choose a date as the starting			
Apply Firmware	Click it to open the following page. Cho click Close .	oose the firmware you want ar			

	Select a firmware				*
	Filename	Property Size	Last Modified	File Path	
		Directory Byte	2019/07/15 13 03 37	The Paul	
	Contraction of the second s	Directory 0 Byte	2019/07/24 13:46:31	/RootGroup	
	and a star party of a	Directory 0 Byte	2019/07/15 13 03:37	/RootGroup	
		Directory 0 Byte	2019/07/17 17:35:40	./RootGroup	
		ctg file 6.93 KB	2019/07/24 13:47:00	/RootGroup	
	Corresponding fire VigorConnect data			from your PC	-
Device to Upgrade	Click the filter icon following page. Or upgraded with new Device to Upgrad	nly the devi w firmware	ce matched wit		
	Filter				
	Device Name				
	MAC Address				310
					902
	Model	All		Ŧ	
	Firmware Version	All		v	
			X Cancel	Q Apply	
Save	Save the current s	ettings.			

III-2-4 Device Reboot

The system administrator can reboot the device managed by VigorConnect directly.

III-2-4-1 Networks & Devices

This page allows you to configure reboot settings applying on a device, devices, or network.

DrayTek VigorConnect						11.51 28/11/2019	R Ibot Bystem Administration
Q. Search	Maintenance >Device Reboot						
Root Network	Networks & Devices Reboot Settings Profile						
ETWORK MENU	Name	Model Name	Firmware Version	Modem Version	Reboot Setting		
Dashboard	 Root Network(4) 				Disabled •		
Monitoring	Marketing_Carrie(0)				As Parent *		
Configuration	VigorAP 810_001DAA7D6514	VigorAP 810	1.2.8	No DSL	As Parent +		
	UlgorSwitch P2121_001DAA4CE98C	VigorSwitch P2121	2.5.1_RC2		As Parent *		
STEM MENU	C P1280_001DAA06F2A3	VigorSwitch P1280	2.5.1_RC2	No DSL	As Parent ·		
Maintenance	P2280_001DAA0C81D0	VigorSwitch P2280	2.5.1_RC1	No DSL	As Daniel +		
Scheduled Backup					As Parent		
Configuration Restore					Default		B Sa
Firmware Upgrade							
Device Reboot							
Schedule Profile							
File Manager							
Network Management							
System							
User							

ltem	Description
Name	Display the name of the network, group and managed device(s).
Model Name	Display the model name of the device.
Firmware Version	Display the firmware version of the device.
Modem Version	Display if the selected device has the DSL interface or note.
Reboot Setting As Parent - Apply the profile/setting listed on the top to the AP. As Parent As Parent Disabled Default Disabled - No action will be performed. Default - Apply the default settings to the selected device.	
Save	Save the current settings.

III-2-4-2 Reboot Settings Profile

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

DrayTek VigorConne	ct			11.52 28/11/2019	R Inot System Administration
Q Search	📕 Maintenan	CE >Device Reboot			
Root Network					
N9792	Networks & Devices	Reboot Settings Profile			
ETWORK MENU	+ Add				
Dashboard	Name	Period(Days)	Time Interval	Action	
Monitoring	Default	1	Now	✓ Edit	
Configuration					
YSTEM MENU					
Maintenance					
Scheduled Backup					
Configuration Restore					
Firmware Upgrade					
Device Reboot					
Schedule Profile					
File Manager					
Network Management					
System					
User					
About					
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Available settings are explained as follows:

Item	Description		
+Add	Click it to create a new reboot settings profile.		
Name	Display the name of the profile.		
Period(days)	Display the interval for the reboot executed.		
Time IntervalDisplay the type (e.g., Now, Scheduled or Schedule Profile) o interval.			
Action Edit - Click it to modify the content of the reboot settings Delete - Click it to remove the profile.			

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

DrayTek VigorConnect			11 55 28/11/2019	R HOOL Try Home Administration
Q, Search	Maintenance >Device Reboot			
Root Network (4)	Networks & Devices Reboot Settings Profile			
NETWORK MENU				
Dashboard	Name			
Monitoring	Period (days)			
Configuration	Reboot Time Now School	And Schedule Profile		
SYSTEM MENU	🛱 Start Time	End Time		
Maintenance	Select time	Select time		
Scheduled Backup	Specify Start Date			
Configuration Restore Firmware Upgrade	Date 2019-11-20	4		
Device Reboot				Transmission (Propagation
Schedule Profile				X Cancel 🔁 Save
File Manager				
Network Management				
System				
User				
About				
	Nation 1.2.0 Copyright © DrayTex Corp. All Rights Reserved.			Your reliable networking solutions partner

ltem	Description				
Name	Enter the name of the reboot settings profile.				
Period(days)	The number entered here determines the frequency for the device reboot by VigorConnect. The default value is 1 day. The unit is "day". If you type 1, that means the reboot will be executed one time by one day.				
Reboot Time	Set a time interval for executing the redevices.	boot work for networks and			
	 Scheduled 				
	 Schedule Profile 				
Start Time / End Time	It is available when Scheduled is select				
	Click Select time to display a clock. Set clicking the number on the clock. $\begin{array}{c} 00:00\\ 23\\ 23\\ 11\\ 12\\ 1\\ 12\\ 1\\ 2\\ 1\\ 14\\ 2\\ 3\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15$, 			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	d Schedule Profile			
Specify Start Date	Click it to enable the date configuration. Date - Click it to pop up a calendar to choose a date as the starting date.				
	Save the current settings.				

III-2-5 Schedule Profile

The profiles can be applied for configuration backup, configuration restore and firmware upgrade.

DrayTek VigorConnect					13.43 20/11/2019	R State Attraction
Search	📕 Maintenance	8 >Schedule Profile				
Root Network	+ Add					
TWORK MENU	Name	Start Day	End Day	Start Time	End Time	Action
	default			00:00	00:00	/ Edt @ Delete
Dashboard						
Monitoring						
Configuration						
STEM MENU						
Maintenance						
Scheduled Backup						
Configuration Restore						
Firmware Upgrade						
Device Reboot						
Schedule Profile						
File Manager						
Network Management						
System						
User						

Available settings are explained as follows:

ltem	Description	
+Add	Click it to create a new profile.	
Name	Display the name of the schedule profile.	
Start Day	Display the starting date of the schedule profile.	
End Day	Display the ending date of the schedule profile.	
Start Time	Display the starting time of the schedule profile.	
End Time	Display the ending time of the schedule profile.	
Action	Edit - Click it to modify the content of the profile. Delete - Click it to remove the schedule profile.	

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

■ Dray Tek VigorConnect				13:45 21/11/2019	R Poot Dystem Admensionada
Q. Search	📕 Maintenance »schedule	e Profile			
Root Network	Profile Name	carrie_test	-		
NETWORK MENU	Date Type	Scheduled			
Dashboard	Start Date	2019-11-28	·		
Monitoring Configuration	Check End Date				
SYSTEM MENU	End Date	2019-11-29	~		
Maintenance	Time Type	Scheduled	•		
Scheduled Backup	Start Time	01.15	· ·		
Configuration Restore Firmware Upgrade	End Time	05:25	-		
Device Reboot Schedule Profile					¥ Cancel 🛐 Add
File Manager					
Network Management					
System					
User					
About					
	Werston 1.2.0 Copyright © DrayTex Corp. A	NJ Rights Reserved.			Your reliable networking solutions partner

Item	Description					
Profile Name	Enter the name of the schedule profile.					
Date Type	 Set a date type for executing certain job for networks and devices. Now Scheduled 					
Start Date	It is available when Scheduled is selected as the Date Type. Click the entry box to display a calendar. Specify the date you want b clicking on it.					
	2019-07-17					
	< Jul v 2019 v >					
	Su Mo 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					
Спеск над рате	It is available when Scheduled is selected as the Date Type .					
	 It is available when Scheduled is selected as the Date Type. Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be the entry box to display a calendar. 					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled.					
	Click the toggle to enable / disable the end date setting.It is available when Check End Date is enabled.Click the entry box to display a calendar. Specify the date you want be					
	 Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want b clicking on it.					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 Click The Price Price Su Mo Tu We Th Fr Sa					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 Click The Price Price Su Mo Tu We Th Fr Sa					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 Click The The Fress 1 2 3 4 5 6					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 Current Solution Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13					
	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 V Jul V 2019 V Same Same Same Same Same Same Same Same					
End Date	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 V U V 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					
End Date	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 V Jul V 2019 V Su Mo 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 Set a time type for executing certain job for networks and devices.					
End Date	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 V U V 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					
Check End Date End Date Time Type Start Time / End Time	Click the toggle to enable / disable the end date setting. It is available when Check End Date is enabled. Click the entry box to display a calendar. Specify the date you want be clicking on it. 2019-07-17 V Jul V 2019 V S Su Mo 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 Set a time type for executing certain job for networks and devices. Now					



III-2-6 File Manager

VigorConnect database is a place which can store the configuration file, firmware and so on. This page allows the user to upload file(s) stored on other places to VigorConnect database, or download the file from VigorConnect to a specified host.

Search	📌 Ma	intenance >Fle Manager				
Root Network (4) ETWORK MENU Dashboard		& Download 10 Doete + New Fox	201		Search.	ray⊺ek FT
Monitoring		Filename	Property	* Size Last Modified	File Path	
Configuration		SharedFirmware	Directory	2019/11/26 16:25:50	RootGroup	
STEM MENU Maintenance Scheduled Backup Configuration Restore						
Scheduled Backup						
Maintenance Scheduled Backup Configuration Restore Firmware Upgrade Device Reboot						
Maintenance Schedulied Backup Configuration Restore Firmware Upgrade Device Reboot Schedule Profile						
Maintenance Scheduled Backup Configuration Restore Firmware Upgrade Device Reboot Schedule Profile File Manager Network Management						
Maintenance Scheduled Backup Configuration Restore Firmware Upgrade Device Reboot Schedule Profile File Manager						

ltem	Description
DrayTek FTP	Click it to open the DrayTek FTP cloud.
Search	Enter a string for searching and displaying on the page.
Upload	Click it to upload a configuration file or firmware from the host to VigorConnect database.

	Download 🖀 Delete <u>+ New Folder</u>								
	Filename 🔶 Property 🔺 Size 🔶 Last Modifie								
	carrie_test1 Directory 2019/07/17								
	Marketing_Carrie								
	SharedFirmware								
	AP902_20190724 ap902_r10189_127.all Browse 2019/07/2-								
	▲ The file must be less than 50MB.								
	≭ Cancel ✓ Apply								
Download	Click it to download a configuration file or firmware from VigorConnect database to a specified host.								
Delete	Remove the selected folder or file.								
+New Folder	Click it to create a new folder for storing files with different properties.								
Filename	Display the name of the folder.								
Property	Display the property (directory, *.all file, or *.cfg file) of the file/folder.								
Size	Display the file size of *.all file/*.cfg file.								
Last Modified	Display the time and date of the last modified event.								
File Path	Display the file path which stores the *.all file/*.cfg file or the directory. The default setting is "./RootGroup".								

Below shows an example of new filename added on the table.

					🛆 DrayTek i
Upload	& Download 8 Delete + New Folder				
					Search:
2	Filename	Property	* Size	CLast Modified	Search: File Path
	Filename	Property Directory	* Size	Last Modified 2019/07/17 17:35:40	

This page is left blank.

Part IV NETWORK MENU for Root Network



IV-1 Monitoring for Network

Monitoring menu offers Alarm, Logs, Floor Plan and Rogue AP Detection for monitoring the normal and abnormal actions for managed device. Monitoring settings will vary for NETWORK MENU and DEVICE MENU.



IV-1-1 Alarm

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

DrayTek VigorConnect								13 52 25/11	/2019	R 1000 Automatication
Search	O Mo	nitorinį	g >Alarm							
Root Network ©	search No. /		ne/MAC		Time Interval: 2019/10/	29 to 2019/11/28				
TWORK MENU Dashboard	Alarm		Delete <u>8 C</u>	lelete All					н (1 11 > H C 0
Monitoring		No, /	Ack Status	Time	Device Name	MAC Address	Alarm Level	Alarm Message		Alarm Type
Alarm Logs Devices Floor Plan Rogue AP Detection Configuration STEM MENU Maintenance Network Management System User About		2	łot Ack	2019-11-27 11 40 53	P2121_001DA44CESBC	001DA44CESBC	A Critical	Device Loss Connect	ton	Device Loss Connection

Available settings are explained as follows:

Item	Description						
Search No. / Device Name / MAC	Enter the index number, device name or MAC address of the device to display alarm message of that device.						
Time Interval	Click the link to open a time setting box. Choose one of the time interval settings and click Search . The alarm records within the period will be listed on this page. <u>Time Interval</u> : 2019/06/18 to 2019/07/18						
	Time Last 30 Days 🔻						
	× Cancel Q Search						
Alarm / History	Alarm – Display the alarm records recently. History – 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	Display the time of alarm occurred for the device.						
Device Name	Display the name of the device.						
MAC Address	Display the MAC address of the monitored device.						
Alarm Level	Display the alarm message with the severity (e.g., Critical) specified.						
Alarm Message	Display a brief explanation for the alarm sent by VigorConnect automatically.						
Alarm Type	Display the alarm message with the type specified.						

IV-1-2 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 VigorConnect.

Search	M	onit	oring >Logs						
Root Network				evice Name / Devic	e ID / MAC / IP / Action / /	Time Inter	val : 2019/10/29 to 2019/11/28		
TWORK MENU	A Expor	1 All	E Delete B Delete All					н «	1 /1 > H C O
Dashboard		10	Device Name	Device ID	MAC Address	Device IP	Action	Action ID	Time
Monitoring	0	23	P2260_001DAA0C81D0	6	001DAADC81D0	192.168.105.168	Set Parameter Values	4	2019-11-28 11:10:09
Alarm		19	P1250_001DAA06F2A3	5	001DAA06F2A3	192.165.105.185	Set Parameter Values	3	2019-11-26 10:20:12
Logs		5	VigorSwitch P2121_001DAA4CE9BC	2	001DAA4CE98C	192,168,105,187	Inform	<u>22</u>	2019-11-27 08:38:13
Devices									
Floor Plan									
Rogue AP Detection									
Configuration									
STEM MENU									
Maintenance									
Network Management									
System									
User									
About									

ltem	Description					
Log Type	Choose one of the conditions to display related log on this page All CPE Actions All CPE Actions All CPE Actions All CPE Actions All CPE Actions CPE Actions all CPE Actions CPE Actions all CPE					
Search ID / Device Name / Device ID / MAC / IP / Action / Action ID	Enter the condition for VigorConnect to search and display relational information.					
Time Interval	Click the link to open a time setting box. Choose one of the time interval settings and click Search . The logs records within the period will be listed on this page. Time Interval : 2019/06/18 to 2019/07/18 Time Last 30 Days					
	X Cancel Q Search					

Export All	Click this button to save alarm log as a 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.

IV-1-3 Device Overview

This page offers information about device overview (including device name, IP address, MAC address, Model, Network, Status, up time, firmware version, and so on).

Q. Search	🖳 Monitoring >Devces								
Root Network	Device Overview Topology Ove	niew							
ETWORK MENU	search Device Name / IP / MAC	Model Al selected (4) +	Status Al	+ SSID AI		Rows 10 *	H C 1 /	1) N C	0
Dashboard	A Export					Gen	eral	Wreless	
Monitoring	Device	IP Address	MAC Address	Model	Network	Status	Up Time	F/W Version	÷
Alarm	VigorAP 810_001DAA7D6514	192 168 105 51 443	001DAA7D6514	VigorAP 810	Root Network	online	2 days 21 10:52	1280	
Logs	VigorSwitch P2121_001DAA4CE9BC	192 168 105 187 80	001DAA4CE98C	VigorSwitch P2121	Root Network	offine	0 days 00:00:00	2.5.1_RC2 0	
Devices	P1260_001DAA06F2A3	192 168 105 185 443	001DAA06F2A3	VigorSwitch P1280	Root Network	offine	0 days 00:00:00	2.5.1_RC2 O	
Floor Plan Rogue AP Detection Configuration rSTEM MENU Maintenance Network Management System User	P2280_001DAA2C8100	192 166 105 198 443	001DAA0C81D0	VigorŞwitch P2280	Root Network	online	0 days 00 00 00	25.1_RCT @	
About	Vestion 12.0 Copylight © DrayTes Corp. All Right							e networking solutions	_

and

DrayTek VigorConnect								1	02-26/1	(2019	R) root	y Adminis	DADA	
Q, Search	🚡 Monitoring -Devices														
Root Network	Device Overview Top	pology Overview													
ETWORK MENU	search Device Name / IP / MAC	Model	All selected (4) +	Status All		• SSID	Al ·	Rows	10 +	н с	1	11 >	н	c i	0
Dashboard	A Export								Gen	eral	1	Wir	oloss		ŕ
Monitoring	Device	IP Address	MAC Address	Model	AP Profile	Floor Plan	2.4G \$\$ID		5G \$\$ID	2.4G CH.	5G CH.	2.40	Client	5G Cli	ien.
Alarm	VigorAP 810_001DAA7D6514	192.168.105.81.443	001DAA7D6514	VigorAP 810		-	DrayTek, TEST2, TEST80.	0		Auto		0		0	
Logs	4														۲
Devices															
Charles Direct															

Available settings are explained as follows:

ltem	Description
Search No. / Device Name / MAC	Enter the index number, device name or MAC address of the device to display alarm message of that device.
Export	Click it to save monitoring log as a XLS file.

IV-1-4 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.

IV-1-4-1 List View

DrayTek VigorConn	ect		14.07/2011/2019 R root Systems Admendiates
Q. Search	Monitoring >Roor Plan		
Root Network	0		List Wew Browse View
IETWORK MENU	+ Add New Profile		
Dashboard	Profile Name	* Devices	Action
Monitoring		No data available	
Alarm			
Logs			
Devices			
Floor Plan			
Rogue AP Detection			
Configuration			
YSTEM MENU			
Maintenance			
Network Management			
System			
User			
About			
	Wysian 120 Copyright © DrayTell Corp. All Rights	Reserved	Your reliable networking solutions partner

Available settings are explained as follows:

ltem	Description
+Add New Profile	Create a new profile.
List View / Browse View	Display the profile with different views.

To create a new profile:

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

Q Search		Plan	
Root Network	Profile Name	marketing_carrie	
NETWORK MENU	Upload Map	Floor_MAP.png	Browse
Dashboard			
Monitoring			x Cancel Continue →
Alarm			
Logs			
Floor Plan			
Rogue AP Detection			
Configuration			

3. A floor map will be displayed on the screen.

Monitoring >Floor Plan	
Profile Name	marketing_carrie
Edit Dimension + Add Device	

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

Add Device – Click it 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.

rofile Name	marketing_carrie		
Edit Dimension Add Device			
rag and drop a virtual AP or an	un-assigned AP to the floor plan.		
		Un-assigned APs	
		Device Name © VigorAP 810_001DAA0F2E60 © VigorAP 902_001DAA3D5490 +	

5. Select the AP you want (e.g., VigorAP910C icon, in this case) 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.

rofile Name	marketing_carrie				
Edit Dimension Add Device	1				
brag and drop a virtual A	'or an unressigned AP to the floor plan.				
		0	0	0	
				\bigcirc	
		Device Name		Model)
			10_001DAA0F2E68	VigorAP 810	
			02_001DAA3D5490	VigorAP 902	,

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.



Remove Device – If you do not satisfy the location of AP icon, click this link to remove the AP icon from the map.

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. Then, the name of the VigorAP will be displayed below the icon on the map.

Monitoring >Floor Plan		
Profile Name	marketing_tarie	
Edit Dimension Add Device		
		•

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

Q Search	Monitoring =Floor Plan		
Root Network C	+ Add New Protei		Lint View Browse View
	Profile Name	A Devices	Action
Dashboard	marketing_carrie	3	Z Edit i 1) Delete
Monitoring			
Alarm			
Logs			
Floor Plan			
Rogue AP Detection			
Configuration			
YSTEM MENU			
Maintenance			
Network Management			
System			
User			
About			

IV-1-4-2 Browse View

This page displays all of the floor plan profiles with the map used.

Q, Search	Monitoring >Floor Plan		
Root Network			List View Binana View
NETWORK MENU	marketing		
Dashboard			
Monitoring	「「「「「「「」」」「「」」「「」」」		
Alarm		OAdd New	
Logs			
Floor Plan	THE PROPERTY		
Rogue AP Detection	(W.W.W CI. Paul, CEL.)		
Configuration	L.	·····	
SYSTEM MENU			1 × 1
Maintenance			
Network Management			
System			
User			
About			

You can click **Add New** on this page to create a new profile. To modify the existed profile, click the icon on the right-top to display a drop down menu. Then click **Edit Map & Plan** to perform the modification, or click **Delete Map Profile** to remove the selected floor plan profile.



IV-1-5 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.

	DrayTek VigorConnect	14 11 20	100t R 100t Dynamic Advanced and
Image: Product Stan	Q Search	Tonitoring Progue AP Detection	
Dashboard Monitoring Alarm Logs Devices Foor Plan Rogue AP Detection Configuration VSTEM MENU Nationance Ketwork Management System User		Last 24 Hours Last 7 Days Last 30 Days Custorn Start: 2019/11/27 End: 2019/11/28	
Alarri Logs Devices Floor Plan Rogue AP Detection Configuration Stem MENU Maintenance Notice arrowatable System User	TWORK MENU	Scan Now Periodic Scan	E Saw
Alarma Alar Alarma Alarma Alar	Dashboard	Rogue AP Known AP	
BSSD SSD Band Channel Sounty Date for Signal Last Detected Devices No data available No data available No data available No data available Rogue AP Detection No data available No data available No data available Configuration No data available No data available Nationance No data available No data available System User No data available	Monitoring	W Mark da Kropen S Delete S Delete Al	H C 1 /1 > H C
Elwors Floor Pan Rogue AP Detection Configuration SYSTEM MENU Maintenance Network Management System User		B\$\$80 \$\$50 Band Channel Security Detector Signal	Last Detected
Rogue AP Detection Configuration STEM MENU Maintenance Network Management System User	Devices	No data available	
Configuration STEM MENU Maintenance Network Management System User	Floor Plan		
/STEM MENU Maintenance Network Management System User	Rogue AP Detection		
Maintenance Network Management System User	Configuration		
Network Management System User	STEM MENU		
System User	Maintenance		
User	Network Management		
	System		
About	User		
	About		
		Version 12.0 Copyright © DrayTek Corp. All Rights Reserved.	Your reliable networking solutions part

Item	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.
	Daily – VigorConnect will detect access point on certain time every day.
	• Start Time – Specify a time point as starting time for device detection.
	Weekly – VigorConnect will detect access point on certain time every week.
	 On - Choose the day to perform device detection. Start Time - 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 Mark as Known . 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.

■ DrayTek VigorConnee	2t			14 15 28/11/2019	R Dottern Administrator
Q. Search	Monitoring >Rogue AP Detector				
Root Network ©	Last 24 Hours Last 7 Days Last 30	Days Custom Start: 2019/11/	27 End: 2019/11/28		
NETWORK MENU	Scan Now Periodic Scan	0			B Save
Dashboard	Rogue AP Known AP				
Monitoring	+ Add # Edt @ Delete @ Delete	s Al		н	1 /1 > H C
Alarm Logs	8550	Channel	Security	Comments	
Devices			No data available		
Floor Plan					
Rogue AP Detection					
Configuration					
SYSTEM MENU					
Maintenance					
Network Management					
System					
User					
About					
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ltem	Descri	Description							
+Add	Click it	Click it to create a new entry for entering information for access point.							
Edit	Chang	e the settings	for a sele	ected access point					
	Select then.	Select one of the access points. The Edit link will be available for clicking, then.							
	modifi	After clicking it, channel, security and comments will be allowed to be modified with different values							
	Rogue AP + Add 1	Known AP			H < 1 /1 > H				
		BSSID	Channel	Security	Comments				
	0	00:1D:AA.9C:F7:42	1	Any	friendly				
	a	00.1D AA-5C A6.38	Any •	Any • WEP WPA/PSK WPA/PSK • WPA/PSK </td <td></td>					
Delete	Remov	ve the selecte	d access p	point from the list					
Delete All	Remov	ve all of the a	ccess poir	its from the list.					
		Remove all of the access points from the list.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 Edit .
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.

IV-2 Configuration for Network

IV-2-1 Wireless Wizard

There is an easy way to configure settings for wireless AP. Click **NETWORK MENU >> Configuration >> Wireless Wizard** to get the following page.

Q Search	🖺 Configur	ation >Wreless Wizard		
Root Network	0			
NETWORK MENU	Discov	er Wreless 3	letap Surrenary	Freish
Dashboard Monitoring	Step 1 - Disc	over		
Configuration	Select / De	eselect All		QDiscover
Wireless Wizard	Action	WebLogingIP	Device Name	Device Type
AP Profile			No data available	
SYSTEM MENU				
Maintenance				
Network Management				
System				
User				
About				
	+ Previous			Next +

Click **Discover**. Later, the detected AP devices will be listed on the web page.

Q. Search	🖺 Cont	figurati	ON >Wireless Wizard				
Root Network		0		_	_0	-0	
NETWORK MENU		Discover	Weislau	Smp	Sammary	Finish	
Dashboard Monitoring	Step 1 -	Discove	ər				
Configuration	🗆 Sek	ct / Desel	ect All			QDi	COVIE
Wireless Wizard	Action	WebLo	aw@lb		Device Name	Device Type	
AP Profile		admin	admin @172.17.12.1	62 443	AP602_001DAA223300	AP802	
SYSTEM MENU	0	admin	admin @172.17.12.6	5 443	AP802_001DAA225548	AP802	
Maintenance Network Management	0	admin	admin @172.17.3.11	4.443	AP902_001DAA3D9808	AP902	
System	D	admin	admin @172.16.21.5	9:443	AP920RP_001DAA632C38	AP920RP	
User	0	admin	admin @172.17.12.1	84:443	AP920R_001DAA78C920	AP920R	
About							
	♦ Pravou	•					ient 🌩

Select the devices you want by clicking the box under **Action**. Then, click **Next**.

Step 1 - Discover

Sele	ct / Deselect All		QDiscover
Action	WebLogin@IP	Device Name	Device Type
	admin :admin @172.17.12.162:443	AP802_001DAA223300	AP802
	admin :admin @172.17.12.65:443	AP802_001DAA225548	AP802
	admin :admin @172.17.3.114:443	AP902_001DAA3D9808	AP902
	admin :admin @172.16.21.59:443	AP920RP_001DAA632C38	AP920RP
	admin admin @172.17.12.184:443	AP920R_001DAA78C920	AP920R
Previous	S		Next 🔶

On the following web page, set the username / password for the user to access into web user interface.

Q. Search	Configuration >w	reless Wizard			
Root Network (2)	0	0	_0	-0	
NETWORK MENU Dashboard Monitoring	Oscorer Step 2 - Wireless Setu	Wireless Setup	Summary	Prosh	
Configuration	Default Wireless				
Wireless Wizard AP Profile	Wireless Name	DrayTek			
SYSTEM MENU Maintenance	Administrator Password	ord	٠		
Network Management	Admin Password		٠		
System User	Confirm Password		٠		
About	More Options	0			
	+ Previous			Ment +	

Item	Description
Default Wireless	Wireless Name - Enter a name for a wireless client to connect via the selected AP device.
	Wireless Password - Enter a password for a wireless client to connect via the selected AP device.
Administrator Password	Admin Password - Enter a password to replace the original password of the selected AP device.
	Confirm Password - Enter a password again for confirmation.
More Options	If enabled, you shall configure advanced settings.

Guest Wireless	Enable Guest Wireless - If enabled, you can set the second group of wireless name and password for the wireless client connecting via the selected AP device.
	 Guest Wireless Name - Enter a name for a wireless client to connect via the selected AP device.
	 Guest Wireless Password - Enter a password for a wireless client to connect via the selected AP device.
Bandwidth Limit	Enable Bandwidth Limit - Click it to enable the bandwidth limit.
	• Upload Limit (bps) - Set the upload limit.
	• Download Limit (bps) - Set the download limit.

After finishing the above configuration, click **Next**.

In this step, a summary will be shown on the screen. Check if the configuration is correct or not. Then, click **Next**.

Q Search	Configuration - Wireless Wizard				
Root Network (2)	Discourse Vientica S	dup Summary	Finh		
ETWORK MENU		ing summer			
Dashboard	Step 3 - Summary				
Monitoring	Default Wireless				
Wireless Wizard	Wreless Name	Wireless Password			
AP Profile	DrayTek	DrayTek123			
YSTEM MENU	Administrator Password				
Maintenance	admin				
Network Management	Guest Wireless				
System	Enable Guest Wireless				
User	false				
About	Guest Wireless Name	Guest Wireless Par	ssword		
	Bandwidth Limit				
	Enable Bandwidth Limit				
0.0.1.9292/web/#	€ Previous		Next	•	
4	uration >Wireless Wizard				
	2)	3		
Disc	over Wireless S	etup	Summary	Finish	
Step 4 - Fir					
	4.0 P	Processing, p	olease walt		
+ Previous					Next 🗲

Click Finish.



IV-2-2 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 VigorConnect. 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 support will be overwritten by the selected AP profile.

Root Network	Add New Profile				
121	Profile Name	Action			
ETWORK MENU	AP_came	🖌 Edit 🗈 Detete 🔁 Duplicate 🔁 Copy T	0		
Dashboard					
Monitoring					
Configuration					
Wireless Wizard					
AP Profile					
STEM MENU					
Maintenance	Device Provisioning				
	Name A da Root Network	Model Name	Last Provisioned	Status	AP Profile
Network Management	A HOOL NETWORK				
System	VigorAP 810_001DAA0F2E68	VigorAP 81D			AP_cante
User	VigerAP 902_001DAA3D5490	VigorAP 902			•
About					
					C Refresh E Apply

ltem	Description				
+Add New Profile	Create a new AP profile with basic settings.				
Profile Name	Display the name of AP profile.				
Action	Edit - Configure detailed settings for the selected AP profile. Delete –Delete the selected AP profile.				
	Duplicate – Click it to duplicate a new profile (e.g., aaa(1)) based on the selected profile (e.g., aaa).				
	Copy To – Click it 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).				

	Courge Interest Exect a Heriton					
Davies Previsioning						
Device Provisioning	Locate the access points for applying suitable AP profile.					
	Name – Display a tree view for model managed by VigorACS.					
	Model Name – Display the name of the model.					
	Last Provisioned – Display the time that AP profile was applied to the selected device.					
	Status – Display the status (updating, complete and "-") of the AP.					
	AP Profile – Choose an AP profile for applying to the selected AP. In which, "As Parent" means to apply the profile listed on the top to the selected AP.					
Refresh	Refresh current page.					
Apply	Save the changes in this page.					

IV-2-2-1 Add a New AP Profile

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

DrayTek VigorConne	ect			14.19.25/11/2019	R Bystum Administrator	. ×
Q. Search	E Configuration >xP Pro	de.				
Root Network (4)	Add a Profile					
ETWORK MENU	Profile Name:	AP_Carrie	1			
Dashboard Monitoring	AP Login Username:	carrie	*			
Configuration	AP Login Password:		~			
Wireless Wizard	Setting Mode:	Cuck Advanced				
YSTEM MENU	+ Back to profile list					🔁 Sava
Maintenance						
Network Management System						
User						
About						
	Westion 1.2.0 Copyright © Dray Tek Corp	Al Rights Reserved			Your reliable networking solution	is partner

ltem	Description				
Profile Name	Enter a name of the profile.				
AP Login Username	nter a username for login the access point.				
AP Login Password	gin Password Enter a password for login the access point.				
Setting Mode Quick - Configure the AP profile with basic settings (same as wireles					

	wizard). Advanced - Conf basic settings).	igure the AP profile with all required settings (including						
Back to profile list	Return to previou	Return to previous page, AP profile list.						
Save	Save the settings	and display the new profile on the AP profile list.						
	Test2	Edit Delete Duplicate Copy To Edit Delete Duplicate Copy To Edit Delete Duplicate Copy To						
	redf	Edit Delete Duplicate Copy To						
	AP_Carrie	🕒 Edit 🖻 Delete 🛅 Duplicate 🛅 Copy To						

IV-2-2-2 Edit the AP Profile

To configure detailed settings for each AP profile, click the **Edit** button for the selected profile.

4 <u>-</u> -	Configuration >AP Profile	
	+ Add New Profile Profile Name	Action
	TEST	🖉 Edit 🖹 Delete 🗋 Duplicate 🛱 Copy To
	AP_Carrie	🖉 Edit 🖹 Delete 🗋 Duplicate 🛱 Copy To
	Jump	Edit Delete Duplicate Copy To

The AP profile can be configured with **Advanced** setting mode (e.g., AP_Carrie) or configured with **Quick** setting mode (e.g., Jump). Both profiles will bring out different setting pages. Refer to the following web pages.

DrayTek VigorConnec	t				14/24/25/11/2019	R Inter Atrenitiater
Q, Search	E Configuration we Prof	e				
Root Network	General Setup	Operation Mode:	Access Point	Range Extender N	Mesh Root Mesh Noc	•
ETWORK MENU	SSID Settings		1. Contraction (1997)			
Dashboard	Roaming	2.4G General Setup				*
Monitoring	Load Balance	2.4G Wireless LAN	0			
Configuration	LAN	802.11 Mode	Mixed(11b+11g+11n)	•		
YSTEM MENU	Antime Fairness	2.40	Channel 11,2462MHz	•		
Maintenance	Mobile Device Management	Channel Width	Auto 20/40 MHz			
Network Management	Application	Extension Channel	Channel 7 2442MHz			
System	WMM Configuration	Extension Channel	Channel 1,2442MHZ	•		
User	System	Antenna	212R	•		
About	Profile Setting	TX Power	100%			
	TRUE	MAC Clone	0			
		MAC Address				
		Band Steering	0			
		6G capability Check Time (sec.)	15			
	 Back to profile list 	Enable 5GHz Minimum R551	0			E Save profile

(Setting Mode with **Advanced**)

DrayTek VigorConne	ct			14:38 29/11/2019	R Foot Cyntern Admeniatration	
Q, Search	E Configuration >APR	holie				
Root Network	WiFi Setting Wizard	Default Wireless				
Dashboard	Profile Setting TR069 Setting	Wireless Name				
Monitoring	ß	Wireless Password				
Configuration Wireless Wizard	U	VLAN	٥			
AP Profile		2nd Wireless				
YSTEM MENU		Enable 2nd Wireless	0			
Maintenance				1	E Save profile	
Network Management System	+ Back to profile list					
User						
About						

(Setting Mode with **Basic**)

Available settings are explained as follows:

ltem	Description					
Operation Mode Area ① - Menu Item	Select one of the operation modes for the AP profile. Access Point Range Extender Mesh Root Mesh Node 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					
Area 🛛 - Settings	 TR069 Settings Such area will vary according to the item selected in Area (1) - Menu Item. 					
Area 윌 - Settings	 At present, the available menu items contain, Profile Setting TR069 Setting 					
Area 🕘 - Settings	Such area will vary according to the item selected in Area (3) - Menu Item.					

If required, refer to User's Guide of VigorAP for the detailed information of settings definition.

Applications

A.1 How to apply an AP profile to AP device(s)?

- 1. Choose a group containing with access points (e.g., "ap" in this case) from Root Network.
- 2. The dashboard of "ap" group appears as follows.
- 3. Open NETWORK MENU>>Configuration>>AP Profile.

In the **Device Provisioning**, all of the access points (e.g., AP 800/ AP810/ AP900 / AP902) grouped under "ap" are displayed under the field of Name.

4. Select the AP (e.g., AP 810 in this case) required to apply new AP profile; and use the drop down list of AP Profile to specify a profile (e.g., test in this case).

You can click **+Add New Profile** to create a new AP profile if there is no AP profile to be chosen or the existed AP profile is not suitable for the AP model.

5. Click **Save**. The settings in web user interface of the selected VigorAP will be overwritten with the settings configured in AP profile immediately.

Part V DEVICE MENU for Specified AP



V-1 Monitoring for CPE

Monitoring menu offers Alarm, Logs and Diagnostics for monitoring the normal and abnormal actions for the specified AP.

Settings to be configured under Root Network	Settings to be configured when an AP is selected				
Root Network	VigorAP 810_001DAA0F (Root Network)				
NETWORK MENU					
Dashboard	Dashboard				
Monitoring	Monitoring				
Alarm	Alarm				
Logs	Logs				
Devices					
Floor Plan					
Rogue AP Detection					
Configuration					

V-1-1 Alarm

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

Q Search	O Monitoring >AI	am.						
VigorAP 810_001DAA0F	search No. / Device Name / I	MAC .		Time Interval: 201	9/06/22 to 2019/07/22			
DEVICE MENU Dashboard	Alarm History	I S Delete All					H	1 /1) H C O
Monitoring	No.	Ack Status	Time	Device Name	MAC Address	Alarm Level	Alarm Message	Alarm Type
Alarm Logs					No data available			
SYSTEM MENU Maintenance Network Management System User About								

ltem	Description
Alarm / History	Alarm – Display the alarm records recently.

	History – 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	Display the time that the alert occurred.
Device Name	Display the name of the device encountering the trouble.
MAC Address	Display the MAC address of the device.
Alarm Level	Display the alarm message with the severity specified.
Alarm Message	Display a brief explanation for the alarm sent by VigorConnect automatically.
Alarm Type	Display the alarm message with the type specified.
Alarm Status	Display the status of the records with the type specified here (Alarm or Rearm).

V-1-2 Logs

Log provides administrator records for action executed, device name, MAC address, Device ID, MAC Address, Device IP, Action, Action ID and Time for the selected device.

Q Search	I M	oni	toring >Logs						
VigorAP 810_001DAA0F Ø				Device Name / Devi	n ID / MAC / IP / Action / Action	Time Interval: 2	019/06/22 to 2		
EVICE MENU	A expor		E Delete All						< 1 /1 > H C O
Dashboard		ID	Device Name	Device ID	MAC Address	Device IP	Action	Action ID	Time
Monitoring		2	VigorAP 810_001DAA0F2E68	1	001DAA0F2E68	192.168.1.210	Inform		2019-07-15 13:19:46
Alarm									
Logs									
YSTEM MENU									
Maintenance									
Network Management									
System									
User									
About									

Available settings are explained as follows:

ltem	Description
Log Туре	Choose one of the conditions to display related log on this page.

search Device Name / IP / MAC	All CPE Actions All CPE Actions All CPE Actions All CPE Actions Device Reboot Reboot By CPE Set Parameter File Transfer CPE Notify Device Register Device Operate Enter the condition for VigorConnect to search and display relational			
	information.			
Time Interval	Specify the time interval to display information within that time period. Time Interval: 2019/06/22 to 2019/07/22 Time Last 30 Days V Cancel Q Search			
Export All	Click this button to save alarm log as a 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.			

Chapter VI Troubleshooting



VI-1 Contacting DrayTek

If the modem still cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

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